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ANNUAL REPORT

for the Year

1958

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WALTER E. SCOTT, JR.

Commissioner of Mines

Publication Approved by E. G. Spurlin, State Controller

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Letter of Transmittal

May 1st, 1959

Honorable Steve McNichols
Governor of Colorado
State Capitol Building
Denver 2, Colorado

Dear Governor McNichols:

In compliance with the requirements of the law, Chapter 92, Article 32, Section 11, of the Colorado Revised Statutes 1953, I have the honor to transmit herewith the Report of the State Bureau of Mines for the year 1958.

Respectfully submitted,

Walter E. Scott, Jr.,
Commissioner of Mines

Personnel of The Colorado Bureau of Mines 1958

WALTER E. SCOTT, JR., Commissioner of Mines..	Central City
G. A. (BUD) FRANZ, JR., Deputy Commissioner.....	Denver
NORMAN R. BLAKE, Inspector, District No. 1.....	Black Hawk
FRED E. THEOBALD, Inspector, District No. 2.....	Canon City
JOHN W. DOYLE, Inspector, District No. 3.....	Leadville
ELZIE D. RAY, Inspector, District No. 4.....	Montrose
JOSEPH L. KEATING, Deputy Inspector.....	Leadville
JOHN H. PAKKA, Deputy Inspector.....	Telluride
RICHARD C. GROOM, Minerals.....	Denver
MARGARET G. LAWRENCE, Administrative Asst.....	Denver
THELMA L. MacMANUS, Account Clerk.....	Denver
NAOMI S. JONES, Clerk Stenographer.....	Denver
AGNES K. BRENNAN, Clerk Typist.....	Denver

Districts of Inspection

COLORADO BUREAU OF MINES

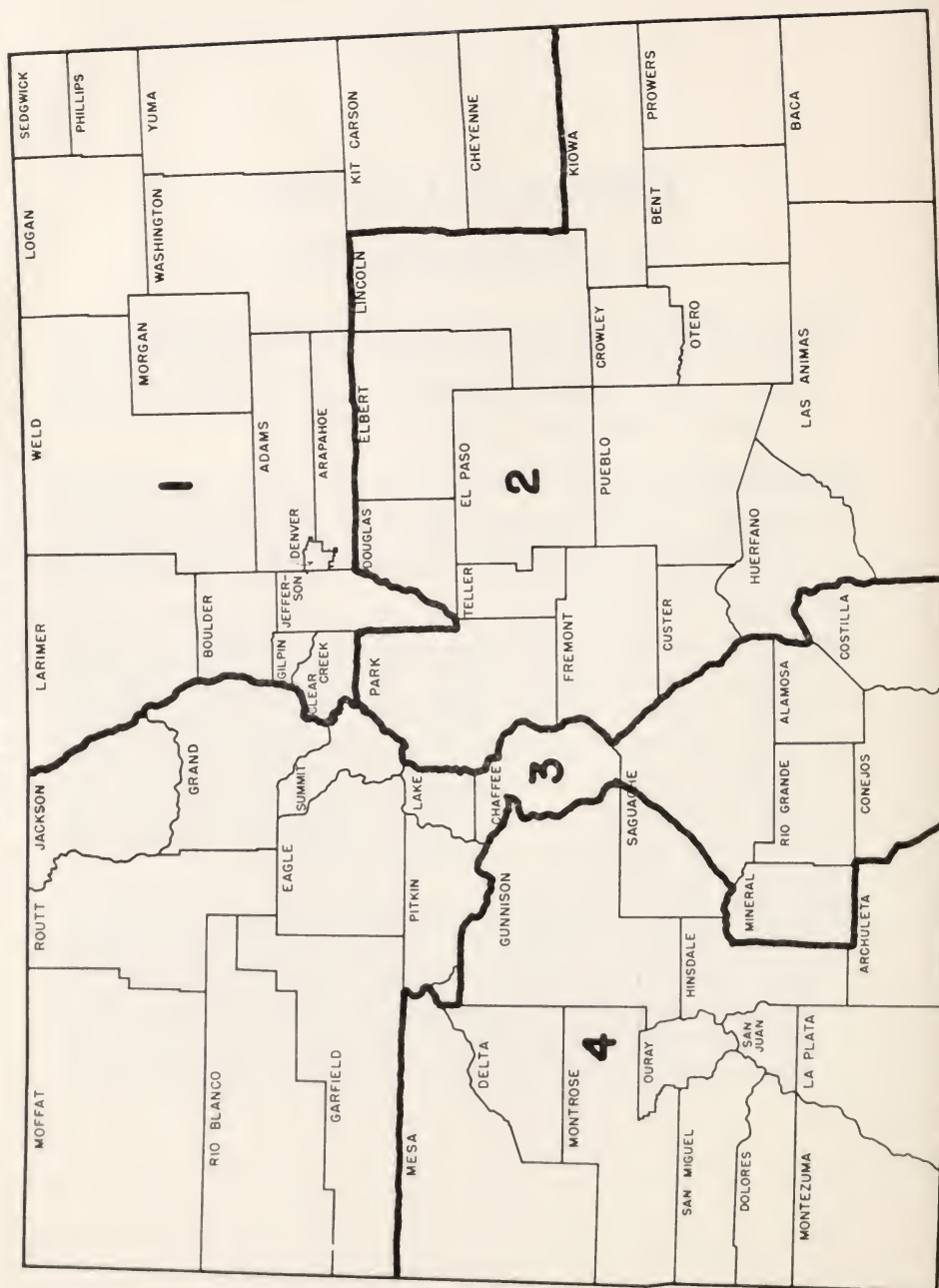
DISTRICT NO. 1, all of the following counties: Adams, Arapahoe, Boulder, Cheyenne, Clear Creek, Denver, Gilpin, Jefferson, Kit Carson, Larimer, Logan, Morgan, Phillips, Sedgwick, Washington, Weld, and Yuma.

DISTRICT NO. 2, all of the following counties: Baca, Bent, Crowley, Custer, Douglas, Elbert, El Paso, Fremont, Huerfano, Kiowa, Las Animas, Lincoln, Otero, Park, Prowers, Pueblo, and Teller.

DISTRICT NO. 3, all of the following counties: Alamosa, Chaffee, Conejos, Costilla, Eagle, Garfield, Grand, Jackson, Lake, Mineral, Moffat, Pitkin, Rio Blanco, Rio Grande, Routt, Summit, and that part of Gunnison County in the extreme northwest corner and lying north of the 39th degree of latitude, and that part of Saguache County lying south and east of the Continental Divide.

DISTRICT NO. 4, all of the following counties: Archuleta, Delta, Dolores, Hinsdale, La Plata, Mesa, Montezuma, Montrose, Ouray, San Juan, San Miguel and Gunnison County, except the extreme northwest corner lying north of the the 39th degree of latitude and that part of Saguache County lying north and west of the Continental Divide.

MAP SHOWING DISTRICTS OF INSPECTION



Commissioners of Mines

HARRY A. LEE.....	May 11, 1895-May 10, 1903
E. L. WHITE.....	May 10, 1903-May 10, 1907
T. J. DALZELL.....	May 10, 1907-May 10, 1911
T. R. HENAHEN.....	May 10, 1911-May 10, 1915
FRED CARROLL.....	May 10, 1915-May 10, 1919
HORACE F. LUNT.....	June 1, 1919-June 1, 1923
JOHN T. JOYCE.....	June 1, 1923-June 12, 1939
EDWARD P. ARTHUR.....	June 12, 1939-August 26, 1943
FRED JONES.....	September 27, 1943-April 25, 1950
WALTER E. SCOTT, JR.....	May 3, 1950

Publications of the Bureau of Mines

BULLETINS

- Bulletin No. 1, Recommendations for Safety Appliance in Mining, Harry A. Lee, Commissioner of Mines, 1896.
- Bulletin No. 2, Precious Metal Production for the Year 1898, Harry A. Lee, Commissioner of Mines, 1899.
- Bulletin No. 3, Mining Laws, Relative to Bureau of Mines Precious Metal Production, Harry A. Lee, Commissioner of Mines, 1899.
- Bulletin No. 4, Precious Metal Production, Harry A. Lee, Commissioner of Mines, 1901.
- Bulletin No. 5, Precious Metal Production, Harry A. Lee, Commissioner of Mines, 1902.
- Bulletin No. 6, Regulations Relative to the Construction, Equipment and Operation of Metalliferous Mines, Mills and Metallurgical Plants, Recommendations and Mineral Production for 1905, E. L. White, Commissioner of Mines, 1906.
- Bulletin No. 7, Federal and State Laws Relating to Mining, Fred Carroll, Commissioner of Mines, 1916.
- Supplement to Bulletin No. 7, Mining Laws Enacted by the Twenty-First General Assembly, Fred Carroll, Commissioner of Mines, 1917.
- Supplement No. 2 to Bulletin No. 7, Amendments to the Mining Laws Enacted by the Twenty-Second General Assembly, Horace F. Lunt, Commissioner of Mines, 1919.
- Supplement No. 3 to Bulletin No. 7, Amendments to Laws Relating to Mining Enacted by the Twenty-Third General Assembly, Horace F. Lunt, Commissioner of Mines, 1921.
- Supplement No. 4 to Bulletin No. 7, Amendments to Laws Relating to Mining Enacted by the Twenty-Fourth General Assembly, Horace F. Lunt, Commissioner of Mines, 1923.
- Bulletin No. 8, The Oil Shales of Northwestern Colorado, Horace F. Lunt, Commissioner of Mines, 1919.
- Bulletin No. 9, Mine Safety Standards, Horace F. Lunt, Commissioner of Mines, 1920.
- Bulletin No. 11, Federal and State Laws Relating to Mining, John T. Joyce, Commissioner of Mines, 1931.
- Bulletin No. 12, Mining Laws of Colorado, Edward P. Arthur, Commissioner of Mines, 1942.

- Bulletin No. 13, Mining Laws of Colorado, Fred Jones, Commissioner of Mines, 1946.
- Bulletin No. 14, Mining Laws of Colorado, Fred Jones, Commissioner of Mines, 1949.
- Bulletin No. 15, Oil Well Safety Laws, Walter E. Scott, Jr., Commissioner of Mines, 1953.
- Circular No. 1, Location of Lode and Placer Mining Claims, Walter E. Scott, Jr., Commissioner of Mines, 1953.
- Bulletin No. 16, Colorado Mining Laws with Rules and Regulations, Walter E. Scott, Jr., Commissioner of Mines, 1954.
- Circular No. 1, Revised, Location of Lode and Placer Mining Claims, Walter E. Scott, Jr., Commissioner of Mines, 1957.

REPORTS

- Report of Bureau of Mines, Colorado, from its establishment in May, 1895, to November 30, 1896, Harry A. Lee, Commissioner of Mines, 1896.
- Report for the Year 1897, Harry A. Lee, Commissioner of Mines, 1898.
- Report for the Year 1898, Harry A. Lee, Commissioner of Mines, 1899.
- Biennial Report for the Years 1899-1900, Harry A. Lee, Commissioner of Mines, 1900.
- Biennial Report for the Years 1901-1902, Harry A. Lee, Commissioner of Mines, 1903.
- Biennial Report for the Years 1903-1904, E. L. White, Commissioner of Mines, 1905.
- Biennial Report for the Years 1905-1906, E. L. White, Commissioner of Mines, 1907.
- Biennial Report for the Years 1907-1908, T. J. Dalzell, Commissioner of Mines, 1909.
- Biennial Report for the Years 1909-1910, T. J. Dalzell, Commissioner of Mines, 1911.
- Biennial Report for the Years 1911-1912, T. R. Henahen, Commissioner of Mines, 1913.
- Biennial Report for the Years 1913-1914, T. R. Henahen, Commissioner of Mines, 1914.
- Biennial Report for the Years 1915-1916, Fred Carroll, Commissioner of Mines, 1916.
- Biennial Report for the Years 1917-1918, Fred Carroll, Commissioner of Mines, 1919.

Annual Report for the Year 1919, Horace F. Lunt, Commissioner of Mines, 1920.

Annual Report for the Year 1920, Horace F. Lunt, Commissioner of Mines, 1921.

Annual Report for the Year 1921, Horace F. Lunt, Commissioner of Mines, 1922.

Annual Report for the Year 1922, Horace F. Lunt, Commissioner of Mines, 1923.

Annual Report for the Year 1923, John T. Joyce, Commissioner of Mines, 1924.

Annual Report for the Year 1924, John T. Joyce, Commissioner of Mines, 1925.

Annual Report for the Year 1925 was fully prepared but, because of lack of funds, was not printed. The manuscript is on file in the office of the State Bureau of Mines.

Annual Report for the Year 1926, John T. Joyce, Commissioner of Mines, 1927.

Annual Report for the Year 1927, John T. Joyce, Commissioner of Mines, 1928.

Annual Report for the Year 1928, John T. Joyce, Commissioner of Mines, 1929.

Annual Report for the Year 1929, John T. Joyce, Commissioner of Mines, 1930.

Annual Report for the Year 1930, John T. Joyce, Commissioner of Mines, 1931.

Annual Report for the Year 1931, John T. Joyce, Commissioner of Mines, 1932.

Annual Report for the Year 1932, John T. Joyce, Commissioner of Mines, 1933.

Annual Report for the Year 1933, John T. Joyce, Commissioner of Mines, 1934.

Annual Report for the Year 1934, John T. Joyce, Commissioner of Mines, 1935.

Annual Report for the Year 1935, John T. Joyce, Commissioner of Mines, 1936.

Owing to lack of funds the 1936 Annual Report of the State Bureau of Mines was not published.

Annual Report for the Year 1937, John T. Joyce, Commissioner of Mines, 1938.

Owing to lack of funds the 1938 Annual Report of the State Bureau of Mines was not published.

Annual Report for the Year 1939, Edward P. Arthur, Commissioner of Mines, 1940.

Owing to lack of funds the 1940 Annual Report of the State Bureau of Mines was not published.

Annual Report for the Year 1941, Edward P. Arthur, Commissioner of Mines, 1942.

Annual Report for the Years 1942 and 1943, Fred Jones, Commissioner of Mines, 1944.

List of Mines for the Year 1944, Fred Jones, Commissioner of Mines, 1945.

List of Mines for the Year 1945, Fred Jones, Commissioner of Mines, 1946.

Annual Report for the Year 1946, Fred Jones, Commissioner of Mines, 1947.

Annual Report for the Year 1947, Fred Jones, Commissioner of Mines, 1948.

Annual Report for 1948 was not published.

Annual Report for the Year 1949, Walter E. Scott, Jr., Commissioner of Mines, 1950.

Annual Report for the Years 1950 and 1951, Walter E. Scott, Jr., Commissioner of Mines, 1952.

Annual Report for the Year 1952, Walter E. Scott, Jr., Commissioner of Mines, 1953.

Annual Report for the Year 1953, Walter E. Scott, Jr., Commissioner of Mines, 1954.

Annual Report for the Year 1954, Walter E. Scott, Jr., Commissioner of Mines, 1955.

Annual Report for the Year 1955, Walter E. Scott, Jr., Commissioner of Mines, 1956.

Annual Report for the Year 1956, Walter E. Scott, Jr., Commissioner of Mines, 1957.

Annual Report for the Year 1957, Walter E. Scott, Jr., Commissioner of Mines, 1958.

Foreword

The Bureau of Mines of the State of Colorado was established by an Act of the Tenth General Assembly and approved March 30, 1895. The Bureau of Mines Law established the office of Commissioner of Mines which had been authorized by the Colorado State Constitution in 1876 (Article 16, Section 1), and charged the Commissioner of Mines, among other things, with the supervision of Metal Mine Inspection and the enforcement of laws relative to health and safety in Metal Mines. Subsequently, this Act was broadened to include "any ore mill, sampling works, smelter, metallurgical plant, rock quarry, clay pit, and rock excavations, tunnels, or mine workings of whatever kind or character, except coal mines."

The Thirty-sixth General Assembly in 1947 passed an Act requiring, in addition to the above, that the Commissioner of Mines conduct safety inspection of all oil wells, property and equipment appurtenant immediately and used in connection with producing oil wells and further charged him with the enforcement of laws relating to the health, safety, and welfare of any person employed in such wells, or other property.

From time to time, and by various opinions and decisions, the Colorado Bureau of Mines, under the direction of the Commissioner of Mines, has been authorized and empowered to make safety inspections of all underground metal or mineral mines, open pit or other surface mines, rock and mineral quarries, clay pits and mines, earth and rock dams, water canals, highway excavations, highway gravel pits, all rock excavations, rock tunnels or any mine workings of whatever kind or character (except coal mines), ore mills, mineral grinding plants, highway gravel crushing plants, sampling works, smelters, chemical plants producing a chemical from ore or minerals, metallurgical plants, oil and gas wells and all equipment and machinery used in connection with any of the above and all buildings thereon.

The Commissioner of Mines was authorized to make such rules and regulations as may be necessary for carrying out provisions of safety, and he has further been charged with the enforcement of laws relating to the health, life, safety and welfare of all persons employed in any of the above mentioned categories. The Commissioner, upon receipt of reliable information indicating any condition that might be injurious or dangerous to the health or safety of workmen employed in these places, or any time when he deems it necessary, makes inspections or has inspections made by the inspectors of the Bureau of Mines who report to him on any unsafe condition or unsafe practice. Whenever possible, all accidents are in-

quired into and a record is kept giving complete information concerning accidents. All fatal accidents are promptly inquired into by an inspector and a complete written report, made to the Commissioner of Mines, becomes a part of the records of the Bureau of Mines.

The Bureau of Mines is required to disseminate such information concerning mining and minerals as may be required by the public, and when he has opportunity and means, the Commissioner of Mines is charged with collecting and preserving mineral specimens and accumulating technical and other data relating to mining, metallurgical processes and geology. He is also required to examine, report on and record the geological formation of important mining districts or mining areas.

The Commissioner of Mines has authority to undertake any research project which would be of assistance to those engaged in mining or which in any way would help to develop the mineral resources of Colorado. He is charged with the responsibility of making investigations regarding prospecting, buying, selling, transporting, treating and reducing ores and minerals, and of recording the progress of the mineral industry providing, of course, that he has means therefore to do so.

The Commissioner of Mines may, from time to time, with the consent of the Governor, compile, publish and distribute bulletins on subjects, districts and counties. When considering a county or district, the report shall give in detail the history of the locality, the geology, the record of mines and mills, the processes of treatment with results, and shall classify and locate mining property and prospects, together with maps of the same provided, of course, that there are appropriations for such work.

The Bureau of Mines has in its custody one of the very finest mineral collections in existence. In addition to the specimens from all over the world, one of the most unusual features of this collection is the fact that it contains specimens of ore from all of the great mines of Colorado. While the collection is visited annually by thousands of tourists, it continues to be of much interest and concern to prospectors, miners, engineers, geologists and persons genuinely interested in Colorado's mineral industry. Foreign engineers and geologists have been most enthusiastic about the Colorado collection. Many new specimens from Colorado mines were added to the collection during 1958.

The first and foremost function of the Colorado Bureau of Mines is Safety Inspection. By inspections and investigations consistent efforts are made to see that safe methods and safe practices are used to protect the health, life, safety and welfare of all persons employed in the mineral and other industries under the jurisdiction of the Bureau.

In addition to their regular duties of inspection and investigations, the four District Inspectors and the two Deputy Inspectors for the Bureau of Mines are qualified First-Aid Instructors. They teach the standard United States Bureau of Mines course and many classes are taught by them each year. Colorado Bureau of Mines inspectors are also qualified to give instruction in the emergency use of the Chemox Breathing apparatus along with instruction as to rescue operations in toxic mine atmosphere. Preliminary ventilation surveys are made by the department and advice and assistance are given to the operator relative to safety of operation.

Advice and information are freely given to prospectors and small operators in order to further the State's mineral development but no written reports on mines are made and care is taken not to encroach on the proper field of consulting engineers and geologists.

Much of the work of the Bureau of Mines, including this report, would not be possible if it were not for the generous cooperation of other departments and agencies. It is impossible for us to thank individually the persons to whom we are indebted, but we are most grateful to all who have been helpful.

The compiling and preparations of this report have been the work of the entire staff of the Bureau, including the inspectors who furnished much of the data concerning their districts. Each and every member of the staff is to be congratulated and thanked for his most generous cooperation and help.

Every effort has been made to assure accuracy and completeness of the data used in the report but changes, due to removal and altered mining conditions, are constantly taking place which may cause some omissions or mistakes to appear in the publication. It will be most appreciated if any additions, corrections or errors are brought to the attention of the Colorado Bureau of Mines.

The publication of this report is authorized by Chapter 92, Article 32, Section 11, of the Colorado Revised Statutes, 1953.

Minerals in 1958

For the first time in eleven years Colorado's mineral production was less than the preceding year, due to falling metal prices which were responsible for a halt in many mining operations. A decrease in the demand for petroleum products resulted in a lower oil production in the State although exploration and development activity was nearly equal to 1957. This year's total mineral production of \$313,965,710 was \$41,346,416 less than in 1957 or a decrease of 11%. Decreased production was noted in beryllium, copper, feldspar, gold, lime, manganese, silver and petroleum while increases were noted in clays, natural gas, sand and gravel, uranium and vanadium. Gold production was lower than at any time in the last eighty years. Tungsten production in Boulder County was at a standstill due to the termination of the General Services Administration purchase program and low tungsten prices. Molybdenum production was lower due to a shut-down of the properties of the Climax Molybdenum Company, a division of American Metals Climax, in Lake County pending settlement of a strike between the union and the company. Uranium and vanadium development work continued and many new discoveries were recorded in Colorado during 1958. Increased beryllium activity was noted in Larimer County with the construction of two concentrating plants in the Loveland area and increased development and exploration work in the Crystal Mountain area near Estes Park.

In addition to the four Union Carbide Nuclear Corporation plants located at Rifle, Uravan, Slick Rock and Maybell, the Vanadium Corporation of America plant at Durango, the Gunnison Mining Company plant at Gunnison, and the Climax Uranium Company plant at Grand Junction, a new uranium reduction plant using the carbonate leach process was erected at Canon City by the Cotter Corporation. The Vanadium Corporation of America closed their Naturita plant at the end of 1957 and moved part of the equipment from that mill to their Durango plant which was operated on an increased tonnage during 1958. With this new milling capacity in Colorado and additional ore bodies discovered and developed on the Colorado Plateau, as well as new ore bodies opened on the Front Range, Colorado will continue to hold its place in the production of uranium. Significant new uranium deposits were developed in the Tallahassee district west of Canon City and ore from these deposits was shipped to the Gunnison mill.

Declining base metal prices were responsible for keeping several of the State's former large base metal operations closed during the year. For a time during 1958 there were no metal

mines operating in the Leadville district, a condition which has not existed since mining operations started in that area. Only two of the State's larger base and precious metal mining properties remained open the entire year and these were the New Jersey Zinc Company's Eagle operations and the Idarado Mining Company's Pandora property. Both of these companies deserve considerable credit for the efficiency of their operations in being able to maintain an operating schedule under adverse conditions. Likewise, the Golden Cycle properties in the Victor-Cripple Creek area have operated with an efficiency that enables them to continue production in the face of mounting costs with a stationary gold price.

American Metal Climax's Climax Molybdenum operations at Climax, Colorado, the largest producers of molybdenum in the world from the largest underground mine in the world, succeeded in developing molybdenum deposits at greater depth during the year. They have started sinking an eighteen-foot circular shaft below the Storke level from which further development work will be done. Their by-products plant has been replaced with a new installation and, after their two and one-half months' strike, operations were resumed and brought up to a normal daily capacity by the end of the year.

The principal producing districts in the State of gold, silver, copper, lead and zinc were:

Eagle County
San Miguel County
Mineral County
Teller County

The leading producers of gold, silver, copper, lead, zinc and molybdenum were:

GOLD	Golden Cycle Corporation Cripple Creek, Colorado
SILVER	Idarado Mining Company, Ouray and San Miguel Counties, Ouray, Colorado
COPPER	Idarado Mining Company, Ouray and San Miguel Counties, Ouray, Colorado
LEAD	Idarado Mining Company, Ouray and San Miguel Counties, Ouray, Colorado
ZINC	Empire Zinc Company, Eagle County Gilman, Colorado
MOLYBDENUM	Climax Molybdenum Division, American Metals Climax, Climax, Colorado

The average prices of the above mentioned metals were: Gold, \$35.00 per ounce; silver, \$0.89044 per ounce; copper, \$0.25164 per pound; molybdenum, \$1.215 per pound; lead, \$0.12109 per pound; zinc, \$0.10309 per pound.

Employment in the mineral industry in Colorado in 1958, although lower than the previous year, did not reflect the widespread inactivity in base and precious metals. This was due to the fact that miners who were laid off by the closing of some of the larger operations were immediately absorbed by small leases and by reclamation tunnel contractors who were active during the year. Blue River Constructors, contractors on the Harold D. Roberts Tunnel between Dillon and Grant, Colorado Constructors, contractors on the Moffat Water Tunnel, Michigan Sewer Constructors, contractors on the Vasquez and Jones Pass Water Tunnels, and the Mountain States Constructors, contractors on the Williams Fork Dam, were responsible for the employment of many miners during the year.

Production of crude oil in Colorado for 1958 was 48,736,368 barrels, a drop of 6,245,932 barrels from 1957. Gas production showed an increase in 1958 with a total production of 134,208,520 thousand cubic feet. The drop in oil production was due to a reduced demand for crude oil during the last half of the year. Petroleum production continued to hold first place in Colorado mineral output and Rio Blanco County remained the largest producer in the State, despite a 10% production drop. Morgan County remained second place and Washington County dropped to third place with a production of 6,852,619 barrels of oil. Rangely Weber field was first in State production with the Adena field in Morgan County second. Exploration work continued in all four corners of the State and the success ratio was about one in ten. New discoveries were made in the Paradox basin in Montezuma County and in southeastern Colorado along the Las Animas arch. Many new wells were completed in northeastern and northwestern Colorado and new fields were discovered.

The Union Oil Company completed their experimental work on their oil shale property on Parachute Creek in Garfield County. Oil shale mining procedures were developed and successful retort methods were improved. Both the Union Oil Company plant and the United States Bureau of Mines property in Garfield County are on a standby basis for future petroleum production from oil shale.

Production figures given in this report are as accurate as possible at this early date. They have been compared with the preliminary report of the United States Bureau of Mines and although some variations appear we believe that there will be no material change in the final figures. The figures quoted are based on total gross production multiplied by the average price of the mineral during the year. They are intended to show an indication of the production in the various counties and in the State and cannot be used as a guide for taxation or as final production figures. Petroleum and gas production is received from the annual report of the Colorado Oil and

Gas Conservation Commission and the dollar value is calculated by this office. Metallic and non-metallic mineral production figures are received directly from the operator and in some cases where these reports are incomplete an estimate from the inspector's report is used.

Production of Metals, Non-Metallics, Petroleum, 1958

	Metals
Uranium	\$ 44,769,173
Molybdenum	30,472,019
Vanadium	12,019,557
Zinc	9,948,453
Lead	3,568,174
Gold	2,584,546
Copper	1,673,196
Tungsten	1,648,251
Pyrite	1,186,498
Silver	1,140,136
Beryllium	59,748
Tin	16,567
Total	\$109,086,318
	Non-Metallics
Cement	\$ 19,142,962
Sand and Gravel	14,282,015
Fluorspar	3,126,768
Limestone	2,337,195
Clay	1,716,635
Miscellaneous (Minerals which cannot be separated for production value)	1,092,923
Stone	430,545
Feldspar	273,685
Gypsum	185,000
Pumicite, Scoria, etc.	63,481
Bog Iron	30,000
Gem Stones	15,600
Rare Earths	5,313
Perlite, Sulphur, etc.	5,851
Total	\$ 42,707,973
	Petroleum
Crude Oil	\$144,747,010
Gas (All classes, well head value)	17,424,409
Total	\$162,171,419

	Recapitulation
Metals	\$109,086,318
Non-Metallics	42,707,973
Oil and Gas	162,171,419
<hr/>	
TOTAL MINERAL PRODUCTION	\$313,965,710

County Activity and Production

ADAMS (1)

Oil production in Adams County was steady during 1958 with an average number of completions and dry holes. Sand and gravel production in the county came principally from the Brannan Sand & Gravel Company's three pits and from the Cooley Sand & Gravel Company's pits on Lowell Boulevard and in Arapahoe County. Some gold and silver production was reported from gravel pit operations.

ARCHULETA (4)

Oil production in Archuleta County remained steady in 1958 with little change from 1957. The Oriental Refining Company, operators of Gramps Field in the southern part of the county, sold their interests to the Flank Oil Company of Billings, Montana, in June of 1958. The Flank Oil Company is a subsidiary of Asmara Oil Corporation, Ltd., of Calgary, Canada. Some new wells were completed and some others were abandoned with a normal amount of wildcat activity.

BACA (2)

Garrizo Enterprises Incorporated are moving a mill from Gilpin County to their Locklin copper property located on Garrizo Creek in southwest Baca County. The mine is developed through an 850-foot tunnel which penetrates copper ores.

BENT (2)

Continued oil exploration and drilling in Bent County were responsible for a slight increase in production during 1958. Several new wells were completed, which indicates that production will continue to advance in the county.

BOULDER (1)

Boulder County's mining activity practically ceased in 1958 as far as metallic mineral production was concerned. With the expiration of the government tungsten-buying program late in 1956, most of the county's tungsten mines were closed. Some activity was noted in gold and silver exploration and several properties were active in development of uranium ore. Fluorspar production remained steady in General Chemical Division's Burlington Mine, and in Harry M. Williamson's

Emmett Mine. Fluorspar mills were operated by Ozark-Mahoning Company at Jamestown and by General Chemical Division at Valmont. The LaSalle Mining Company, under the direction of Mat Rowe and Cliff Doyle, succeeded in developing a producing uranium property near Jamestown. All stone quarries in the county were active during the year and these properties maintained steady production of cut stone and flagstone for building purposes. The Wah Chang Corporation operated the Marion Mill on Sugar Loaf Road, processing thorite ore from the Canon City area.

CHAFFEE (3)

In 1954, 1955 and 1956 the Colorado Bureau of Mines reported gypsum production from Chaffee County. This was in error as the reported production came from Fremont County. During 1958 Chaffee County continued to produce small amounts of a wide variety of minerals. The Monarch Lime Quarry, operated by the Colorado Fuel & Iron Corporation, was active all year and some improvements were installed. The Antero Refining Company developed their beryllium and rare earth properties. The M & S and the Homestake Mines shipped feldspar ore to the Western Feldspar Mill near Salida. The Salida Granite Company produced granite blocks for the building and memorial trades. Feldspar production remained steady from the Western Feldspar Milling Company.

CLEAR CREEK (1)

Significant events in Clear Creek County's mining activities during 1958 were the holing through or completion of the Vasquez Water Tunnel on February 26, and the completion on September 16 of the 1,600-foot ventilation hole from the surface to underground workings of the Big Five Tunnel. Completion of the Vasquez Tunnel will insure more water for the Denver area; and the ventilation hole to the Big Five Tunnel will open the way for further development of reported mineral deposits in Clear Creek County. The Jackpot Oil Company purchased a controlling interest in the Bald Eagle Mine and the development work which followed was promising. Some work was done on the Lucania Tunnel located on Fall River. The Bride and Fourth of July Tunnels were operated by Komo Mines, Inc. Activity in the county was steady on development work, although production was not equal to 1957 because of lower base-metal prices. Forty-four separate mining, milling and placer operations were reported in Clear Creek County during 1958, most of which were doing development and exploration work. Placers were operated by Steve Papp and Alvin C. Amrhein on the Frank's Placer and Texaco Placer respectively.

CONEJOS (3)

Some turquoise from the King Turquoise Dump was pro-

duced and used in the manufacture of costume jewelry. Steady production from the Great Lakes Carbon Company's perlite plant at Antonito was reported. Perlite ore for processing was shipped in from New Mexico.

COSTILLA (3)

The Mesita Hill quarry and crushing plant, operated by the Colorado Aggregate Company, Inc., was active all year, producing volcanic scoria for the manufacture of cinder block and roofing. There was no other mining activity reported in Costilla County.

CUSTER (2)

Activities at the Great Lakes Carbon Corporation were suspended during the year on their Rosita perlite property, and late in 1958 Persolite Products, Inc., took over the quarry. They planned to resume operations and process the perlite ore at the former Great Lakes Carbon Corporation's plant located at Florence. Flexmore, Inc., have started construction of a perlite plant near Silver Cliff and some production was reported. The Crestone Company has been conducting development operations on a reported uranium deposit in the Crestone Needles area at an altitude above 11,000 feet. Thorium development and production were reported from the Westcliffe area at the Anna Lee property operated by the Gendev Corporation.

DENVER (1)

Three mineral processing plants operated in Denver County during 1958. They were the International Minerals & Chemical Corporation's feldspar processing plant, the General Chemical Division of the Allied Chemical & Dye Corporation's sulphuric acid plant, and the Globe Smelter operated by the American Smelting & Refining Company. Although some gold was recovered from gravel plant excavations, the amount was not recorded. Many mining and oil companies operating in Colorado have their offices in Denver.

DOLORES (4)

Because of the low base metal prices and an unsteady metal market, operations at the Rico Argentine properties were confined to the production of iron pyrites for their sulphuric acid plant. There was no lead, zinc, copper, silver, or gold production reported in 1958 from this property. Some small leases were active on development and assessment work. However, production for Dolores County in base and precious metals was lower than it has been for many years. Some uranium production was recorded from mines along the Dolores River and in the Dunton area, and uranium development was generally active. Some small gold production was reported from the St. Louis claim operated by Myron Jones. It is reported that Rico Argentine will start lead-zinc milling opera-

tions early in January of 1959 on ore from the Mountain Springs and St. Louis Tunnels.

DOUGLAS (2)

Limestone, silica sand, and clay were the major products from the mining industry in Douglas County. All three minerals were produced from the Helmer pits. Clay was produced from the Hogback, Ringenberg, and Stevens Ranch clay mines. These properties are located in the Castle Rock and Littleton areas. Some uranium development work was done in the county.

EAGLE (3)

The Empire Zinc Company maintained a steady operation at their Eagle Mine and Mill located at Gilman, Colorado, in spite of declining lead, zinc and copper prices during most of the year. This company remained one of the largest producers of zinc in the State and development work was continued throughout the year. Pumice and volcanic cinders were produced at the Roaring Fork Quarry and the Dotsero Quarry by the Ideal Lava Products Company and E. H. Bone, respectively. Some uranium exploration work was conducted in the Vail Pass area.

EL PASO (2)

The Castle Concrete Company operated their Castle Quarry, located five miles west of Colorado Springs, and produced concrete aggregate all during the year. The Lennox Breed Quarry, operated by Colorado Materials Company, continued their record production of concrete aggregate. The Atomic Minerals Corporation reported a small production of thorium ore from the Twenty-One Mine on the Corley Mountain Highway.

FREMONT (2)

Cotter Corporation's mill, located three and a half miles south of Canon City, started processing uranium ores from the Front Range in April of 1958. The mill has a reported capacity of seventy-two tons per day and application has been made to the Atomic Energy Commission to increase this tonnage to two hundred tons per day. Limestone and cement, produced at the Portland Quarry, operated by the Ideal Cement Company, was the major mineral product of the county in 1958. Other county products include dolomite, travertine, feldspar, mica, beryl, quartz, marble, sand, and gravel. The Empire Zinc Company's sintering plant was closed for a time during the year but resumed operations during the latter part of 1958. Gypsum was mined at the Coaldale Quarry by Fibreboard Paper Products Company and the product was used in the manufacture of wallboard. Dolomite was mined by the Colorado Fuel & Iron Works and shipped to their Pueblo plant

for flux. Uranium exploration and development continued in the Tallahassee district and considerable production was reported. Hi-Lo Minerals Corporation are constructing a mica processing plant near Howard, Colorado, and will start operations in May of 1959. Colonna & Company of Colorado, Inc., operated several small quarries in the county, as well as their crushing plant located in Canon City. Ganister was produced for Colorado Fuel & Iron Corporation by Sturbaum & Company and Laclede-Christy produced silica rock for their firebrick plant at Canon City.

GARFIELD (3)

Considerable exploration, development, and experimental work was done by the Union Oil Company at their oil shale property located on Parachute Creek. Mine methods and retort procedures were tested until August of this year when operations were temporarily closed down. The new uranium and vanadium reduction plant of the Union Carbide Nuclear Company started operations in January of 1958 on a reported tonnage in excess of 1,000 tons per day. Many plant problems were overcome during the year and eventually this plant will be one of the largest uranium mills in the State. Frank H. Norberg operated the Glenwood Springs Lime Quarry and Crushing Plant intermittently during the year on a reduced tonnage basis. The United States Bureau of Mines' Oil Shale Mine and Plant were maintained on a standby basis for future development work. Oil activity in the county continued steady and mineral prospecting indicated increased future mining activity in the county.

GILPIN (1)

Although Gilpin County's mineral production fell off during the year, many small properties were active on exploration and development work. The production loss this year can be traced directly to low metal prices and decreased interest in mining activity is also due to the lower base metal prices. Operations at the Glory Hole and Glory Hole Mill were steady during the year on gold development and processing. The Pittsburgh Mine, operated by Pittsburgh-Notaway Mines, Inc., performed development and rehabilitation work. Some development work was done at the Boodle property by William K. Guthrie. Work on the Moffat Water Tunnel was completed early in the year when slabbing and concreting were finished and the tunnel made ready for use. Several tourist mines in the county were open during the summer months, and weekend placer mining was evident along Clear Creek when weather permitted.

GRAND (3)

The Williams Fork Dam being constructed for the Denver

Water Board by the Mountain States Construction Company reportedly will be completed by the end of 1958. The dam was raised an additional one hundred feet to accommodate much larger water storage behind the dam. The Vasquez Tunnel was completed during the year and lining it with concrete should be completed by January 1, 1959. The Amis Construction Company worked during the summer months on road construction over Rabbit Ears Pass. Some manganese development was reported in the northwestern part of the county.

GUNNISON (3 & 4)

Base metal mining in Gunnison County was confined to exploration and development work due to a continual fall in base metal prices in 1958. The Keystone property, operated by the American Smelting and Refining Company, remained closed except for development work. Other properties in the Crested Butte area did some development, but no production was recorded. The Pinnacle Exploration Company located new uranium bodies in the Marshall Pass area on Indian Creek. Some beryl was produced by Hancock & Arendell from their Green Hawk Mine on Alder Creek. Development continued for most of the year on the United States Lithium Company's Lepidolite No. 2 Claim. The Gunnison Mining Company operated their new mill, which is located at Gunnison, all year on uranium ores from their Los Ochos property in Saguache County, and on ores from the Tallahassee district in Fremont County. Some uranium prospecting and developing were done in Gunnison County in 1958.

HINSDALE (4)

Prospecting and exploration work for uranium ore was conducted by the Gunnison Mining Company on their Nellie Creek property. Other development operations were conducted by K. C. Knapp on the Pride of America vein and by Williams and Long on the Resorgimento property. There was no production listed from Hinsdale County. Low metal prices and high cost of transportation have a direct effect on Hinsdale County's mining activity.

JACKSON (3)

The fluorspar operation of Ozark-Mahoning Company at their 200-level at Northgate No. 2 Mine was steady in 1958 with production ranging from 6,000 to 9,000 tons per month. Ore was treated and refined into acid and metallurgical grade fluorspar at their mill located three miles north of Cowdrey. Oil activity and production from the Battleship field, north and south McCallum fields, and the Canadian River field remained steady during the year. Some copper exploration work was done during the summer months.

JEFFERSON (1)

Mineral production in Jefferson County was strong during 1958 in both metallic and non-metallic production. Sand and gravel continued to be the largest product in dollar value, with clay, uranium, stone, and feldspar following in order. The Brannan Sand & Gravel Company and the Rio Grande Sand & Gravel Company continued to supply building aggregate for construction and highway surfacing. The Robinson Brick & Tile Company, Denver Fire Clay Company, George W. Parfet Estate, and the Lakewood Brick & Tile Company were the predominate clay producers from their mines along the hogback. The Denver-Golden Oil & Uranium Company operated their Schwartzwalder Mine steadily all year on increased uranium tonnage, which they shipped to the new Cotter Corporation mill at Canon City. Feldspar production from the South Platte River Canyon fell off materially toward the end of the year. Beryl Ores, Inc., processed beryl and mica ores at their plant near Arvada, and filter rock was mined at the Table Mountain pit by the Sterling Contracting Company.

LAKE (3)

Mineral production in Lake County was materially hampered by falling metal prices, which virtually closed all base metal mines in the county during the year, and by a strike at the Climax Molybdenum Company which closed their mining property from July 21 to October 9. However, Climax was back into full production by the end of the year and they are continuing the sinking of their eighteen-foot circular shaft from the Storke Level. Their new by-products plant, which will materially aid by-product recovery of pyrites, tin and tungsten, was completed during the year. The Arkansas Valley plant of the American Smelting & Refining Company operated on reduced tonnage all year from mines in the Rocky Mountain area, as well as on ore from foreign countries. Considerable headway was made in cleaning up caves in the Busk-Ivanhoe Water Tunnel, and this project should be completed early in 1959. C. Ryan & Son operated the gravel plant for the Climax Molybdenum Company all year. For a time during the year there were no mines operating in the Leadville district, a condition which has not been recorded since mining began in the area.

LA PLATA (4)

Mineral activity in La Plata County during 1958 has increased over 1957. With the closing of the Vanadium Corporation of America's plant at Naturita, additional tonnage has been added to the Durango plant and new installations of equipment were made. Stewart Brothers conducted development and exploration work on the Brawner Tunnel. E. M. Myers developed silver-gold ore at the Lady Eleanor Mine.

Some activity was reported at the Mary Alice, Muldoon, and Rosnite Mines where development was conducted for base metals and gold and silver ores. Considerable oil and gas activity prevailed in the Red Mesa, Ignacio and Bayfield areas with additional drilling by Consolidated Oil & Gas, Inc., and Occidental Petroleum Corporation. Many new gas wells were completed with some increase in oil production. The Kennecott Copper Corporation filed claims covering nearly 600 acres of possible copper-producing ground and this transaction could well be the beginning of a new industry in the county.

LARIMER (1)

Sixteen stone quarries were active in Larimer County in 1958, producing flagstone, cut stone, and crushed stone which are used in the building trade in the Rocky Mountain area. In addition to this activity, beryllium development and production in the Crystal Mountain area were greatly increased. The American Beryllium Company's mill located near Masonville was completed and some beryl concentrate was produced. One other beryllium mill was under construction and slated for completion by the end of the year. This was the Mineral Concentrates Mill and Chemical Plant at Loveland. Norberg Construction Company operated the Rex Limestone Quarry for the Holly Sugar Company all year. The Ideal Cement Company operated the Boettcher Quarry on an increased tonnage during the year. Uranium development and prospecting were steady with a reported shipment from the Copper King Mine in the Prairie Divide region. In general, mining activity in Larimer County was on the increase. Oil production and development continued to expand in the eastern part of the county. Sand and gravel production remained steady.

LAS ANIMAS (2)

Clay mining in the Santa Fe Mine was in progress all year on a restricted tonnage basis. The clay was shipped to the Pueblo plant of the Standard Fire Brick Company. Oil well drilling and exploration were continued in the western part of the county.

LOGAN (1)

For the second consecutive year Logan County showed a decline in oil production with 771,509 barrels less than in 1957. With a production of 5,746,294 barrels in 1958 the county maintained fourth place in State petroleum production. Natural gas production also declined from the previous year.

MESA (4)

Mesa County continued to hold third place in the production of uranium in 1958 in spite of the tonnage cutback at the Climax Uranium plant located in Grand Junction. Many small

lessors were required to locate other buyers for their ore as the Climax mill, after the cutback, processed mostly its own ore. Activity in this county, as well as other Colorado counties, was curtailed due to the Atomic Energy Commission's announcement in October of 1957 that cutbacks would be in effect and few new mills would be constructed. Prospecting leveled off some but production continued to rise above the 1957 production figures. The Atomic Energy Commission and its subcontractors were active all year in exploration and ore-purchasing programs. There was considerable access road construction in the county and oil well activity reported a measure of success. Work progressed on the Vega Dam and Water Tunnel east of Colbran under contract to C. F. Lytle, Inc. Access roads and small earthen dams were constructed east of Colbran by Wallace Beard.

MINERAL (3)

Production of rare and base metals in Mineral County dropped considerably in 1958 when the Emperius Mining Company at Creede suspended operations in June due to falling metal prices. This property, including the Commodore and Amethyst Mines and the Creede Mill, started operations again late in the year and were nearing normal production by January of 1959. Other active properties were the Holy Moses Mine operated by the Sublet Mining Company, the Monon Mine operated by the Monon Mining & Leasing Company, the Outlet Tunnel operated by the Outlet Mining Company, and the S & S Mill operated by the S & S Milling Company. Low metal prices have created operating hardships in this county.

MOFFAT (3)

Petroleum from the Hiawatha Dome, Powder Wash, Isles Dome, Maudlin Gulch, Thornburg, and the Elk Springs fields was the major commodity produced in Moffat County during 1958. New petroleum exploration and development continued and several new wildcat wells were completed. Of importance to the county was uranium production from the Trace Elements Corporation's Marge Pit. This production was in excess of 1,000 tons per day and was treated at the Maybell Mill. Trace Elements Corporation is a subsidiary of the Union Carbide Nuclear Company. Considerable prospecting and development work on uranium ore was done by the Pioneer Exploration Company and the Buffalo Mining Company of Craig. The Maybell uranium deposits are mined by the open pit method and are reported to be the largest in the State.

MONTEZUMA (4)

Petroleum activity in Montezuma County reached a new high in 1958 with increased exploration and production from the Aneth field, across the border in Utah. Many exploration

wells were drilled with a fair ratio of completions. A large number of gas wells were brought in and many drilling companies maintained offices and warehouses in Cortez. A favorable oil showing was encountered at the Ellis No. 1, south of Mancos, and some petroleum production was reported from this area. Moderate uranium exploration and development continued south of Dove Creek in Cross Canyon with some uranium production reported. Development activity continued at the Gold Dollar and Red Arrow properties on the East Mancos River.

MONTROSE (4)

In excess of 215 separate uranium operations were inspected in Montrose County in 1958. The larger part of these mines was in production, which justified the county's claim of "first in uranium production." In spite of uncertain future government support, many new deposits were opened and considerable exploration work was accomplished with encouraging results. Some deposits were worked out, including the Shattuck-Denn Mine on Club Mesa. The Vanadium Corporation of America's Naturita plant was closed on January 1, and local ores were shipped to their Durango mill and other plants in the area. The Union Carbide Nuclear Corporation mill at Uravan made continued improvement in their flowsheet and milling processes, and tonnage treated during the year was at an all-time high. New deposits were opened in Monogram Mesa, Bull Canyon, and Gypsum Valley, and in general throughout the entire uranium belt. Most uranium development in Montrose County has centered around deeper-lying deposits located under the numerous mesas in the area.

MORGAN (1)

Morgan County climbed to second place in petroleum production in 1958 with a reported 7,305,334 barrels. There was an increase over last year in the number of active fields with a total of thirty-seven, Adena field remaining the second largest producer in the State. Gas production was up over last year with a dollar value production of \$1,421,991 and exploration activity was steady with an average number of completions.

OURAY (4)

With twenty-three operations listed in 1958, Ouray County showed an increase in activity over 1957. Many of these operations were former producers before they were closed due to falling metal prices. The resumption of mining activity indicates more confidence in the area. The Treasury Tunnel, operated by the Idarado Mining Company, was active all year. However, all ore from the Ouray County side was milled at their Pandora Mill located near Telluride. The Diamond Jack Mining Company was active in development work at the

Greyhound Group. The Mayflower Mining Company did development work on the Mountain King property, and milling operations continued at the Rolling J Mill south of Ouray.

PARK (2)

Many of Park County's producing mines were idle in 1958 due to low base metal prices. The Hilltop, operated by the Leadville Lead Corporation, worked all year and produced shipments of gold-silver-lead-zinc ores. Although slightly less than was produced in 1957, beryllium production from the Boomer Mine, located in Badger Flats, was none the less significant. The Alma Placer, located at Alma, operated during the summer months. New uranium claims were located in the county in 1958, which indicates an increase of activity in the exploration of this mineral. Blue River Constructors advanced the heading of the Harold D. Roberts Water Tunnel beyond the 40,000-foot station. This tunnel, when completed, will bring water from the Blue River at Dillon to the South Platte at Grant, Colorado.

PITKIN (3)

This once highly productive county in precious and base metals reported little or no activity in 1958. A small shipment of uranium ore was made from the Lookout Mountain area just above Lenado by James S. Dodge. Other uranium prospecting and development was noted, with some manganese exploration in the Snowmass area.

PUEBLO (2)

The Meadow No. 5 and Stone City Nos. 1, 2, 3, 5, and 6 operated by General Refractories Company, the Nellie Helen Clay Mine operated by Arthur Wands, and the Rock Creek Clay Mines operated by the Freeman Fire Brick Company, were active in 1958. The Pueblo Mica Grinding Plant, operated by International Minerals & Chemical Company, was in operation all year as were several sand and gravel plants in Pueblo County. General Refractories operated the Chamblin Clay Mine as well as their properties in the Rock Creek district. Cliff & Creek Uranium Company conducted development and exploration work on their Kathryn property south of Fort Carson.

RIO BLANCO (3)

Rio Blanco County maintained its first place in oil production in Colorado from Rangely Field which has been unitized and is operated by the California Company. New wells were drilled in the Meeker area, which added production to the county, and a considerable number of wildcat wells were completed. Four uranium properties, the Butterfly Pit, Burrell No. 3, Coal Creek No. 1, and the Last Day Mines, were active.

Some uranium production was listed from Rio Blanco County in 1958.

RIO GRANDE (3)

Considerable oil exploration was evident in Rio Grande County during 1958 with several crews doing seismograph work. Oil leases were being secured by the Tennessee Gas Transmission Company, the Texas Company, Phillips Petroleum Company, Skelly Oil Company, and others, which indicated expanded future exploration. General Minerals Corporation continued its diamond drilling program for minerals in the Summitville area.

ROUTT (3)

A new oil discovery on Trout Creek by the Tennessee Gas Transmission Company stimulated oil activity in this county during the year. Cabeen Exploration Company, located fourteen miles west of Steamboat Springs, had several producing wells, and a success ratio of 75% has been reported on their new wells. The McCoy Aggregate Company produced steady amounts of volcanic ash at their McCoy Cinder Pit which is located four miles northeast of McCoy.

SAN JUAN (4)

Rehabilitation of the 750-ton Central Mill (formerly the Shenandoah-Dives Mill) owned by Marcy-Shenandoah Mining Company, continued throughout the year. This plant will handle custom ores from the district as well as ore from the company-owned mines. The Pride Mill, owned by the Argyle Mining & Milling Corporation, operated at various times during the year on custom ores and on ores from their own mines. Several other companies, including the Denver-Golden Oil & Uranium Company, the Gaddis Mining Company, Frank Richardson, and others were active on development work at their properties in the county. Some work was done on a new portal for the Mighty Monarch Mine by the Silverton Mining Company. Continued development activity promises increased production from this one-time large producing county.

SAN MIGUEL (4)

San Miguel County's mineral activity was steady during the year with continued production in uranium, precious metals, and base metals. The Idarado Mining Company operated their Pandora mining property and mill located near Telluride all year. In spite of falling metal prices, development work was maintained and property improvements made, which will insure maximum production on short notice. The Union Carbide Nuclear Company started the operation of their up-grading plant at Slick Rock which materially increased tonnages in the area. New uranium discoveries were developed

in the Slick Rock and Horseshoe Bend areas. Additional claims were located in the county in spite of the Atomic Energy Commission's announcement of a cutback in their purchase program. Some bog iron was produced for paint pigment from Harry K. Williamson's pit at Ophir which was operated by Boyd Robinson. Oil drilling activity increased in the southern and western ends of the county with drilling operations being conducted by Continental Oil Company and the Union Oil Company.

SUMMIT (3)

The Knight Mining Corporation, operators of the New York Mine, was granted a loan from Defense Minerals Exploration Administration for exploration work on lead and zinc ores. Exploration work was done at other mines which include the Wellington, Shoe Basin, St. John, Jumbo, Big 4, and Alliance. This exploration work was reported as successful. Blue River Constructors, contractors for the Denver Water Board, pushed tunneling work both east and west from the bottom of the Montezuma Shaft, and also made record progress on the Dillon entry of the Harold D. Roberts Tunnel. This tunneling project should be completed before the end of 1959, and when lined with concrete, will deliver water from the Blue River to the South Platte River. C. Ryan & Son operated the aggregate pit for the Climax Molybdenum Company.

TELLER (2)

Mining properties of the Golden Cycle Corporation, United Gold Mines, and the Cresson Consolidated Gold Mining & Milling Company which operated and produced during the year were the Ajax, Cameron, Cresson, and Deadwood Mines. The Strong Mine, operated by Front Range Mines, Inc., closed in August of this year. The Carlton Mill, operated by the Golden Cycle Corporation, received gold ores from mines and dumps in the Cripple Creek-Victor district. Operations were conducted on a reduced tonnage throughout the year. Other mining operations were the Iron Clad Mine, operated by the Rampart Mines Company, the Henry Adney, operated by John Robush & Company, and the El Paso, operated by Beacon Hill Mines, Inc. Some monumental stone was shipped from the Pikes Peak Quarry, and peat moss was mined at the Alpen Meadow Bog. Doepke Mining Company, owners and operators of the International Shaft, conducted development work and produced some gold from their property during the year.

WASHINGTON (1)

Washington County maintained third place in petroleum production with 6,852,619 barrels of oil. Although this was a

drop from 1957 production, fifty-five fields were reported active. This was an increase of eight fields over last year. Gas production showed a slight increase during 1958 and exploration activity continued with a fair ratio of success.

Production by Counties, 1958

ADAMS COUNTY

* BRIGHTON

Area 1250 square miles

4 plants, oil wells—90 men

Gold	\$	11,500
Silver		42

Total	\$	11,542
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Sand and gravel	\$	388,923
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Petroleum		2,315,448
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Gas		134,959
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Total	\$	2,450,407
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TOTAL PRODUCTION FOR COUNTY	\$	2,850,872
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ARCHULETA COUNTY

* PAGOSA SPRINGS

Area 1364 square miles

Gravel plant, oil wells—60 men

Sand and gravel	\$	71,875
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Petroleum		351,167
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Gas		41
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Total	\$	351,208
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TOTAL PRODUCTION FOR COUNTY	\$	423,083
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BACA COUNTY

* SPRINGFIELD

Area 2565 square miles

1 mine, 1 plant, oil wells—58 men

Sand and gravel	\$	82,937
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Petroleum		588
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Gas		51,362
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Total	\$	51,950
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TOTAL PRODUCTION FOR COUNTY	\$	134,887
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BENT COUNTY

* LAS ANIMAS

Area 1543 square miles

Gravel plant, oil wells—40 men

Sand and gravel	\$	36,457
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Petroleum		3,362
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Gas		4,591
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Total	\$	7,953
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TOTAL PRODUCTION FOR COUNTY	\$	44,410
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BOULDER

* BOULDER

Area 758 square miles

16 mines, 15 quarries, plants, oil wells—318 men

Gold	\$ 200
Silver	3,465
Lead	1,177

Total	\$ 4,842
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Sand and gravel	1,133,019
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Fluorspar	1,409,102
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Building and other stone	75,134
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Clays	37,500
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Total	\$ 2,654,755
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Petroleum	\$ 7,455
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TOTAL PRODUCTION FOR COUNTY	\$ 2,667,052
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CHAFFEE COUNTY

* SALIDA

Area 1040 square miles

7 mines, 3 quarries, 4 plants—100 men

Silver	\$ 1,000
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Lead	5,000
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Manganese	160
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Total	\$ 6,160
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Sand and gravel	82,966
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Limestone	921,711
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Feldspar, mica, etc.	271,261
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Total	\$ 1,275,938
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TOTAL PRODUCTION FOR COUNTY	\$ 1,282,098
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CLEAR CREEK COUNTY

* GEORGETOWN

Area 395 square miles

34 mines, 4 plants, projects—478 men

Gold	\$ 37,067
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Silver	15,226
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Copper	5,390
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Lead	34,925
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Beryllium	88
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Total	\$ 92,696
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Sand and gravel	291,629
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Feldspar, mica, etc.	183
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Total	\$ 291,812
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TOTAL PRODUCTION FOR COUNTY	\$ 384,508
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COSTILLA COUNTY

* SAN LUIS

Area 1220 square miles

1 quarry, gravel plant—13 men

Sand and gravel	\$ 85,214
Scoria	23,350

TOTAL PRODUCTION FOR COUNTY.....	\$ 108,564
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CUSTER COUNTY

* WESTCLIFFE

Area 738 square miles

8 mines, 1 plant—34 men

Clays	\$ 5,329
Perlite	2,851
Thorium	5,313

TOTAL PRODUCTION FOR COUNTY.....	\$ 13,493
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DOLORES COUNTY

* DOVE CREEK

Area 1029 square miles

4 mines, 1 plant, oil wells—146 men

Pyrite	\$ 914,078
Sand and gravel	\$ 297,679

TOTAL PRODUCTION FOR COUNTY.....	\$ 1,211,757
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DOUGLAS COUNTY

* CASTLE ROCK

Area 844 square miles

6 quarries & clay mines, gravel—34 men

Sand and gravel	\$ 101,450
Limestone	1,182
Clays	94,209
Silica rock	4,596

TOTAL PRODUCTION FOR COUNTY.....	\$ 201,437
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EAGLE COUNTY

* EAGLE

Area 1686 square miles

1 mine, 2 quarries, 1 plant—520 men

Silver	\$ 400,000
Copper	300,000
Lead	1,078,089
Zinc	6,888,969
Pyrite	49,800

Total	\$ 8,716,858
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Sand and gravel	246,006
Scoria	5,656

Total	\$ 251,662
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TOTAL PRODUCTION FOR COUNTY.....	\$ 8,968,520
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EL PASO COUNTY

* COLORADO SPRINGS

Area 2159 square miles

2 mines, 2 quarries, gravel plant, oil wells—90 men

Sand and gravel	\$ 1,122,066
Limestone	250,725
Silica rock	81,944

TOTAL PRODUCTION FOR COUNTY	\$ 1,454,735
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FREMONT COUNTY

* CANON CITY

Area 1562 square miles

3 mines, 12 clay mines & quarries, 1 plant, oil wells—172 men

Uranium	
Cement	\$11,799,798
Sand and gravel	97,253
Limestone	730,597
Gypsum	68,000
Building and other stone	30,578

Total	\$12,726,226
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Petroleum	\$ 80,852
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TOTAL PRODUCTION FOR COUNTY	\$12,807,078
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GARFIELD COUNTY

* GLENWOOD SPRINGS

Area 3000 square miles

1 mine, 1 quarry, 2 plants, oil wells—267 men

Sand and gravel	\$ 49,421
Limestone	36,133
Oil shale	1,081,500

Total	\$ 1,167,054
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Gas	\$ 115,822
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TOTAL PRODUCTION FOR COUNTY	\$ 1,282,876
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GILPIN COUNTY

* CENTRAL CITY

Area 149 square miles

26 mines, 3 plants, projects—219 men

Gold	\$ 1,478
Silver	1,490
Copper	327

Total	\$ 3,295
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Sand and gravel	6,744
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Peat	6,260
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Total	\$ 13,004
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TOTAL PRODUCTION FOR COUNTY	\$ 16,299
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GUNNISON COUNTY

* GUNNISON

Area 3243 square miles

19 mines, 2 plants, projects—232 men

Uranium	
Sand and gravel	\$ 124,294

TOTAL PRODUCTION FOR COUNTY.....	\$ 124,294
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JACKSON COUNTY

* WALDEN

Area 1628 square miles

4 mines, 1 plant, oil wells—181 men

Sand and gravel	\$ 11,919
Fluorspar	1,717,336

Total	\$ 1,729,255
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Petroleum	2,770,493
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Gas	4,023,694
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Total	\$ 6,794,187
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TOTAL PRODUCTION FOR COUNTY.....	\$ 8,523,442
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JEFFERSON COUNTY

* GOLDEN

Area 791 square miles

13 mines, 18 quarries, 4 plants—204 men

Uranium	
Sand and gravel	\$ 2,392,241

Building and other stones	18,140
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Clays	631,892
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Feldspar, mica, etc.	1,315
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Total	\$ 3,043,588
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Petroleum	\$ 7,181
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TOTAL PRODUCTION FOR COUNTY.....	\$ 3,050,769
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LAKE COUNTY

* LEADVILLE

Area 384 square miles

6 mines, 3 plants, projects—1742 men

Gold	\$ 100
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Silver	12
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Lead	78
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Zinc	4
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Molybdenum	30,472,019
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Tungsten	1,648,251
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Pyrite	222,620
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Tin	16,567
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TOTAL PRODUCTION FOR COUNTY.....	\$32,359,651
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LA PLATA COUNTY

* DURANGO

Area 1691 square miles

5 mines, 1 plant, projects, oil wells—408 men

Sand and gravel\$ 223,584

Petroleum 57,027

Gas 2,332,845

Total\$ 2,389,872

TOTAL PRODUCTION FOR COUNTY.....\$ 2,613,456

LARIMER COUNTY

* FORT COLLINS

Area 2640 square miles

9 mines, 18 quarries, 6 plants, oil wells—170 men

Beryllium\$ 6,160

Cement 7,343,164

Sand and gravel 248,808

Gypsum 117,000

Building and other stones 117,349

Mica 360

Total\$ 7,826,681

Petroleum 618,520

Gas 5,029

Total\$ 623,549

TOTAL PRODUCTION FOR COUNTY.....\$ 8,456,390

LAS ANIMAS COUNTY

* TRINIDAD

Area 4798 square miles

Projects, oil wells—50 men

Sand and gravel\$ 181,371

TOTAL PRODUCTION FOR COUNTY.....\$ 181,371

LOGAN COUNTY

* STERLING

Area 1849 square miles

Projects, oil wells—320 men

Sand and gravel\$ 200,000

Petroleum 17,066,493

Gas 1,317,061

Total\$18,383,554

TOTAL PRODUCTION FOR COUNTY.....\$18,583,554

MESA COUNTY

* GRAND JUNCTION

Area 3334 square miles

69 mines, 5 plants, projects, oil wells—1922 men

Sand and gravel\$ 1,188,869

Gas\$ 86,875

TOTAL PRODUCTION FOR COUNTY.....\$ 1,275,744

MINERAL COUNTY

* CREEDE

Area 923 square miles

5 mines, 2 plants, projects—91 men

Gold\$ 30,430

Silver104,420

Copper616

Lead352,893

Zinc316,393

Total\$ 804,752

Sand and gravel\$ 67,222

TOTAL PRODUCTION FOR COUNTY.....\$ 871,974

MOFFAT COUNTY

* CRAIG

Area 4761 square miles

3 mines, 1 plant, oil wells—311 men

Uranium\$

Sand and gravel.....\$ 206,478

Petroleum3,475,515

Gas985,888

Total\$ 4,461,403

TOTAL PRODUCTION FOR COUNTY.....\$ 4,667,881

MONTEZUMA COUNTY

* CORTEZ

Area 2097 square miles

5 mines, projects, oil wells—232 men

Gold\$ 2,870

Silver212

Total\$ 3,082

Sand and gravel\$ 340,037

Petroleum10,941

Gas11,150

Total\$ 22,091

TOTAL PRODUCTION FOR COUNTY.....\$ 365,210

MONTROSE COUNTY

* MONTROSE

Area 2240 square miles

212 mines, 2 plants, projects, oil wells—1156 men

Uranium	
Sand and gravel	\$ 368,460
Building and other stones	107,400

TOTAL PRODUCTION FOR COUNTY.....	\$ 475,860
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MORGAN COUNTY

* FORT MORGAN

Area 1300 square miles

2 plants, oil wells—320 men

Sand and gravel	\$ 50,335
Petroleum	21,696,842
Gas	1,421,991

Total	\$23,118,833
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TOTAL PRODUCTION FOR COUNTY.....	\$23,169,168
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OURAY COUNTY

* OURAY

Area 504 square miles

22 mines, 1 plant, projects, oil wells—212 men

Gold	\$ 235,250
Silver	164,348
Copper	334,062
Lead	440,437
Zinc	647,500

Total	\$ 1,821,597
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Sand and gravel	\$ 12,495
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TOTAL PRODUCTION FOR COUNTY.....	\$ 1,834,092
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PARK COUNTY

* FAIRPLAY

Area 2178 square miles

8 mines, 1 plant, projects—154 men

Silver	\$ 32,148
Lead	168,504
Beryllium	37,500

Total	\$ 238,152
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Sand and gravel	\$ 124,108
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TOTAL PRODUCTION FOR COUNTY.....	\$ 362,260
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PUEBLO COUNTY

* PUEBLO

Area 2414 square miles

6 clay mines, 1 plant, projects, oil wells—72 men

Sand and gravel\$ 1,118,039

Clays 217,108

TOTAL PRODUCTION FOR COUNTY.....\$ 1,335,147

RIO BLANCO COUNTY

* MEEKER

Area 3264 square miles

4 mines, projects, oil wells—574 men

Uranium

Vanadium

Sand and gravel\$ 216,482

Petroleum 69,141,686

Gas 6,237,136

Total\$75,378,822

TOTAL PRODUCTION FOR COUNTY.....\$75,595,304

ROUTT COUNTY

* STEAMBOAT SPRINGS

Area 2231 square miles

1 quarry, projects, oil wells—208 men

Scoria\$ 34,475

Petroleum 483,914

Gas 3,269

Total\$ 487,183

TOTAL PRODUCTION FOR COUNTY.....\$ 521,658

SAGUACHE COUNTY

* SAGUACHE

Area 3146 square miles

12 mines, 1 quarry, 3 plants, projects—185 men

Gold\$ 8,400

Silver 14,283

Copper 21,099

Lead 109,621

Zinc 117,231

Uranium

Total\$ 270,634

Turquoise\$ 15,600

TOTAL PRODUCTION FOR COUNTY.....\$ 286,234

SAN JUAN COUNTY

* SILVERTON

Area 392 square miles

13 mines, 2 plants, projects—87 men

Gold	\$ 26,623
Silver	12,332
Copper	8,513
Lead	56,017
Zinc	35,856

TOTAL PRODUCTION FOR COUNTY	\$ 139,341
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SAN MIGUEL COUNTY

* TELLURIDE

Area 1284 square miles

103 mines, 3 plants, projects—1243 men

Gold	\$ 705,429
Silver	490,563
Copper	1,002,189
Lead	1,321,315
Zinc	2,142,500
Uranium	
Vanadium	

Total	\$ 5,661,996
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Sand and gravel	31,942
Bog iron	30,000

Total	\$ 61,942
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TOTAL PRODUCTION FOR COUNTY	\$ 5,723,938
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SUMMIT COUNTY

* BRECKENRIDGE

Area 616 square miles

6 mines, 2 plants, projects—563 men

Gold	\$ 7
Silver	15
Lead	118

Total	\$ 140
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Sand and gravel	\$ 384,870
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TOTAL PRODUCTION FOR COUNTY	\$ 385,010
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TELLER COUNTY

* CRIPPLE CREEK

Area 555 square miles

11 mines, 1 plant, 2 quarries, projects—199 men

Gold\$ 1,525,192

Silver5,000

Total\$ 1,530,192

Building and other stones..... 13,170

Peat9,600

Total\$ 22,770

TOTAL PRODUCTION FOR COUNTY.....\$ 1,552,962

WASHINGTON COUNTY

* AKRON

Area 2530 square miles

Oil wells—230 men

Sand and gravel\$ 155,602

Petroleum20,352,278

Gas455,579

Total\$20,807,857

TOTAL PRODUCTION FOR COUNTY.....\$20,963,459

WELD COUNTY

* GREELEY

Area 4033 square miles

Projects, oil wells—115 men

Sand and gravel\$ 252,052

Petroleum6,306,929

Gas228,848

Total\$ 6,535,777

TOTAL PRODUCTION FOR COUNTY.....\$ 6,787,829

* County Seats

Safety Awards

The following list of operators employing ten or more men have completed the entire year of 1958 without a lost-time accident and have been issued Safety Awards. Considerable improvement in safety has been shown by many of the larger operators and a great number of operations employing less than ten men completed the entire year without a lost-time accident. To the operators who did not receive an award we wish to extend our sincere appreciation for their untiring cooperation.

American Smelting & Refining Company, Globe Plant,
Denver

The California Company, Rangely Gas Plant, Rangely
Climax Uranium Company, Grand Junction

Colorado Limestone Company, Howard

Colorado Materials Company, Colorado Springs

Booth Eckman, Nucla

General Chemical Division, Allied Chemical & Dye Corporation, Burlington Mine, Boulder

General Chemical Division, Allied Chemical & Dye Corporation, Valmont Plant, Boulder

Hess Drilling Company, Paradox

Ideal Cement Company, Boettcher Quarry, Fort Collins

Ideal Cement Company, Portland Quarry, Portland

International Minerals & Chemical Corporation, Pueblo

McPherson Drilling Company, Montrose

Model Mining Company, Grand Junction

New Jersey Zinc Company, Canon City

George W. Parfet Estate, Golden

Lucius Pitkin Incorporated, Grand Junction

Verne Ray, Uravan

DeVar Shumway, Grand Junction

The Texas Company, Craig

United States Atomic Energy Commission, Denver

United States Gypsum Company, Loveland

Western Feldspar Milling Company, Salida

Accidents

Fatal accidents in the mineral industry and construction projects in Colorado were reduced from twenty-two in 1957 to fourteen in 1958. Ten fatalities occurred in the mining industry, four of which were on the surface and six underground. One fatal occurred in the sand and gravel industry and three fatalities occurred in the oil well industry. Of these fatal accidents seven were caused by falling objects and ground, which has been the number one cause of accidents in the industry for several years. Three were caused by fall of man which has ranked second over the years. One was caused by asphyxiation, one by burns at a rig fire, one by electrocution underground and one by improper blasting procedure. The average age of the men killed in the mining industry was forty-three years, the average age in the oil industry was forty-two. The gravel pit fatality victim was fifty-three years old.

All of the fatal accidents in 1958 were avoidable and their cause was traced directly to carelessness of the individual or management along with infractions of safety rules by all parties concerned. All of these fatal accidents as well as all serious accidents were investigated by the inspectors in the various districts and complete written reports were submitted to the operators and the Bureau of Mines. Recommendations in writing were made to the operators for the correction of any condition or procedure which contributed to the accident. Accident information was compiled and distributed to all inspectors as an aid to preventing occurrence of similar accidents.

A total of 35,395,200 man-hours was worked in the industry in 1958, with a total of 1,101 lost-time accidents which resulted in the loss of 98,278 days. This includes the loss of 88,040 days due to fatal accidents and permanent partial disabilities.

The fatal accident rate per 1,000 men in the entire industry was .95 while the fatal accident rate per 1,000 men in the mining industry was 1.17, oil industry 1.07, and the sand and gravel industry 1.4. There was one lost-time accident for every 13.3 men employed in the entire minerals industry with the same ratio in the mining industry, 13.1 in the oil industry, and 13.4 in State and Federal projects.

SUMMARY OF ACCIDENTS—1958

	Total Man-Hours	Lost-Time Injuries	Number of Days Lost	Frequency Rate Per One Million Man-Hours	Severity Rate Per One Million Man-Hours
Mines, Surface	2,985,600	87	18,947	29.1	6,346.
Mines, Underground	9,736,800	495	53,285	50.8	5,473.
Quarries - Clay Pits	1,740,000	21	155	12.0	89.
Mills - Plants - Smelters	7,845,600	93	1,613	11.9	206.
State & Federal Projects	6,434,400	202	2,152	31.4	334.
Oil Wells	6,652,800	203	22,126	30.5	3,326.
Totals	35,395,200	1,101	98,278	31.1	2,777.

This table includes the loss of 84,000 days due to 14 fatalities and 4,040 days due to 11 permanent partial disabilities.

Frequency Rate=	Severity Rate=
Number of Injuries \times 1,000,000	Total Time Charges in Days \times 1,000,000
Number of Man-Hours of Exposure	Number of Man-Hours of Exposure

FATAL ACCIDENTS—1958

Date	Name	Employed by	Cause of Death
METAL MINES			
1-17-58	Levi Kilgore	LaSalle Mining Company (U.C.N.C.)	Crushed under dumped bucket of waste
3-7-58	Casey Ralph Sheridan	Shattuck Denn Mining Company	Crushed by fall of rock
5-13-58	Aaron M. Shideler	Idarado Mining Company	Fall of man down raise
7-8-58	Richard Reece	Reece & Austin Lessees	Crushed by fall of rock
8-8-58	George Austin	Reece & Austin Lessees	Crushed by fall of rock
8-11-58	Thomas O. Maxey	Rico Argentine Mining Company	Asphyxiation in old raise
8-15-58	Henry Marino	Titan Mines, Inc.	Crushed by fall of rock
9-11-58	Orbie Oliver Warren	Orbie Oliver Warren	Improper blasting procedure
9-16-58	Donald Eugene Bartlett	Lowell Thompson (Climax U.)	Electrocution underground
11-5-58	David Krill	Idarado Mining Company	Asphyxiation. Fall of man

PLACERS

11-14-58	Elmer H. Tuttle	Brannan Sand & Gravel Company	Hit by collapsing boom
OIL WELLS			
8-24-58	Joe Ray Adair	Ace Well Service	Fall of man. Derrick collapse
11-27-58	De Loyd Stefn	Honaker & Davis Drilling Company	Hit by falling object
12-13-58	Albert J. Tullis	White River Exploration Company	Burns from rig fire

AGENCY CAUSING ACCIDENT

	Fatals	Temporary Injuries Loss of one day or more	
MINES, SURFACE			
Atmosphere		1	
Cables - Hose - Ropes	1	2	
Cars - Motors - Vehicles		2	
Containers		1	
Chemicals		2	
Doors - Windows - Gates		1	
Drills - Drilling Equipment		7	
Electricity - Elec. Equipment		2	
Falls - Floor - Ice - Snow		7	
Flames - Fire - Hot Substances		2	
Ladders - Manways		1	
Machinery - Tools		15	
Materials		1	
Metal Objects		26	
Rock - Ore - Ground	1	12	
Timber - Lumber - Poles		2	
Tracks		1	
Unclassified - Insufficient Data		1	
Totals	2	86	88

MINES, UNDERGROUND

Atmosphere	2	9	
Bars - Bins - Chutes		8	
Cables - Hose - Ropes		17	
Cars - Motors - Vehicles		92	
Containers		2	
Drills - Drilling Equipment		28	
Dust and Particles		4	
Explosives, Loading or Firing	1	2	
Electricity - Elec. Equipment	1		
Falls - Floor - Ice - Snow	1	22	
Falling or Flying Objects		2	
Hoists - Hoisting Apparatus		2	
Ladders - Manways		6	
Machinery - Tools		64	
Metal Objects		40	
Platforms - Staging - Scaffolds		6	
Premature or Delayed Blasts		2	
Rock - Ore - Ground	4	138	
Timber - Lumber - Poles		40	
Tracks		4	
Totals	9	488	497

AGENCY CAUSING ACCIDENT—Continued

	Fatals	Temporary Injuries Loss of one day or more
QUARRIES		
Belts - Conveyors - Pulleys		1
Cables - Hose - Ropes		2
Cars - Motors - Vehicles		1
Explosives, Loading or Firing		1
Falls - Floor - Ice - Snow		1
Machinery - Tools		3
Metal Objects		1
Rock - Ore - Ground		11
		<hr/>
Total		21

MILLS, PLANTS, SMELTERS

Atmosphere		3
Belts - Conveyors - Pulleys		3
Cables - Hose - Ropes		2
Cars - Motors - Vehicles		6
Containers		5
Chemicals		4
Doors - Windows - Gates		1
Drills - Drilling Equipment		1
Dust and Particles		2
Electricity - Elec. Equipment		1
Falls - Floor - Ice - Snow		15
Flames - Fire - Hot Substances		8
Machinery - Tools		9
Materials		4
Metal Objects		18
Rock - Ore - Ground		11
		<hr/>
Total		93

OIL WELLS

Belts - Conveyors - Pulleys		1
Cables - Hose - Ropes		5
Cars - Motors - Vehicles		6
Chains - Gears - Sprockets		7
Containers		1
Chemicals		2
Drills - Drilling Equipment	1	37
Electricity - Elec. Equipment		4
Falls - Floor - Ice - Snow	1	27
Flames - Fire - Hot Substances	1	3

AGENCY CAUSING ACCIDENT—Continued

	Fatals	Temporary Injuries Loss of one day or more	
Machinery - Tools		16	
Metal Objects		60	
Platforms - Staging - Scaffolds		4	
Rock - Ore - Ground		3	
Timber - Lumber - Poles		3	
Tongs		20	
Unclassified - Insufficient Data		1	
Totals	3	200	203

STATE AND FEDERAL PROJECTS

Atmosphere	1
Bars - Bins - Chutes	2
Belts - Conveyors - Pulleys	2
Cables - Hose - Ropes	7
Cars - Motors - Vehicles	28
Chains - Gears - Sprockets	2
Containers	2
Chemicals	3
Doors - Windows - Gates	1
Drills - Drilling Equipment	5
Dust and Particles	2
Falls - Floor - Ice - Snow	9
Flames - Fire - Hot Substances	3
Ladders - Manways	5
Machinery - Tools	23
Materials	7
Metal Objects	37
Platforms - Staging - Scaffolds	1
Premature or Delayed Blasts	3
Rock - Ore - Ground	39
Timber - Lumber - Poles	11
Tracks	9
Total	202

TYPE, NATURE AND SITE OF INJURY

		Temporary Injuries Loss of one day or more	
	Fatals		
MINES, SURFACE			
Type of Injury			
Burns - Shock		5	
Caught in or between		9	
Fall on same level		1	
Fall on different level		8	
Handling		16	
Inhalation - Suffocation		1	
Striking against - Struck by	3	41	
Slip - Stepping on		7	
	—	—	—
Totals	3	88	91

Nature of Injury

Foreign Bodies		7	
Cuts - Bruises - Lacerations - Punctures		39	
Strains - Sprains - Dislocations		21	
Hernia		2	
Respiratory		1	
Fractures	2	15	
Burns - Scalds - Shock	1	6	
	—	—	—
Totals	3	91	94

Site of Injury

Eyes		13	
Head - Face - Neck	1	7	
Trunk		24	
Upper Extremities		16	
Lower Extremities		32	
General	2	1	
	—	—	—
Totals	3	93	96

TYPE, NATURE AND SITE OF INJURY—Continued

	Fatals	Temporary Injuries Loss of one day or more	
MINES, UNDERGROUND			
Type of Injury			
Burns - Shock	1		
Caught in or between		56	
Fall on same level		12	
Fall on different level	1	24	
Handling		96	
Inhalation - Suffocation	2	7	
Striking against - Struck by	4	214	
Slip - Stepping on		32	
	<hr/>	<hr/>	<hr/>
Totals	8	441	449

Nature of Injury

Foreign Bodies		28	
Cuts - Bruises - Lacerations - Punctures		243	
Strains - Sprains - Dislocations.....		131	
Hernia		14	
Respiratory	2	10	
Fractures	5	74	
Amputations		5	
Burns - Scalds - Shock	1		
Occupational Diseases		1	
	<hr/>	<hr/>	<hr/>
Totals	8	506	514

Site of Injury

Eyes	1	39	
Head - Face - Neck	1	35	
Trunk		163	
Upper Extremities		127	
Lower Extremities		153	
General	6	9	
Insufficient data		1	
	<hr/>	<hr/>	<hr/>
Totals	8	527	535

TYPE, NATURE AND SITE OF INJURY—Continued

	Fatals	Temporary Injuries Loss of one day or more
QUARRIES		
Type of Injury		
Caught in or between		4
Fall on different level		1
Handling		3
Striking against - Struck by		10
Slip - Stepping on		3
		—
Total		21
Nature of Injury		
Foreign Bodies		1
Cuts - Bruises - Lacerations - Punctures		10
Strains - Sprains - Dislocations		6
Fractures		4
		—
Total		21
Site of Injury		
Eyes		1
Head - Face - Neck		1
Trunk		4
Upper Extremities		7
Lower Extremities		8
		—
Total		21

	Temporary Injuries
	Loss of one day
Fatals	or more

MILLS, SMELTERS, PLANTS**Type of Injury**

Burns - Shock	7
Caught in or between	8
Fall on same level	2
Fall on different level	5
Handling	17
Inhalation - Suffocation	4
Striking against - Struck by	35
Slip - Stepping on	15
	—
Total	93

Nature of Injury

Foreign Bodies	8
Cuts - Bruises - Lacerations - Punctures	26
Strains - Sprains - Dislocations	25
Hernia	4
Respiratory	4
Fractures	14
Amputations	1
Burns - Scalds - Shock	11
	—
Total	93

Site of Injury

Eyes	12
Head - Face - Neck	9
Trunk	26
Upper Extremities	21
Lower Extremities	29
General	3
	—
Total	100

TYPE, NATURE AND SITE OF INJURY—Continued

		Temporary Injuries	
		Fatals	Loss of one day or more
OIL WELLS			
Type of Injury			
Burns - Shock	1		11
Caught in or between			50
Fall on same level			6
Fall on different level	1		10
Handling			17
Striking against - Struck by	1		88
Slip - Stepping on			16
Unclassified - Insufficient data			2
		<hr/>	<hr/>
Totals	3		200
			<hr/>
			203

Nature of Injury

Foreign Bodies		2	
Cuts - Bruises - Lacerations - Punctures		104	
Strains - Sprains - Dislocations.....		40	
Hernia		1	
Fractures	2	49	
Amputations		6	
Burns - Scalds - Shock	1	11	
Nature Unknown		2	
	<hr/>	<hr/>	<hr/>
Totals	3	215	218

Site of Injury

Eyes		11	
Head - Face - Neck	2	27	
Trunk		35	
Upper Extremities		77	
Lower Extremities	1	53	
General		2	
	<hr/>	<hr/>	<hr/>
Totals	3	205	208

TYPE, NATURE AND SITE OF INJURY—Continued

	Fatals	Temporary Injuries Loss of one day or more
STATE AND FEDERAL PROJECTS		
Type of Injury		
Burns - Shock		19
Caught in or between		24
Fall on same level		2
Fall on different level		5
Handling		28
Inhalation - Suffocation		1
Striking against - Struck by		114
Slip - Stepping on		10
		<hr/>
Total		202

Nature of Injury

Foreign Bodies	7
Cuts - Bruises - Lacerations - Punctures	109
Strains - Sprains - Dislocations	40
Hernia	2
Respiratory	1
Fractures	34
Amputations	1
Burns - Scalds - Shock	11
Occupational diseases	1
	<hr/>
Total	206

Site of Injury

Eyes	9
Head - Face - Neck	15
Trunk	50
Upper Extremities	57
Lower Extremities	80
General	2
Insufficient data	2
	<hr/>
Total	215

Men Employed—1958

Suspension of operations by several of the larger mining properties was responsible for a decrease in the number of men employed in the industry in 1958. Most of the men laid off from the larger operations remained in the industry by starting small leases, a fact which is evidenced by the increase in mining operations over 1957. In 1958 there were 961 less men employed in the industry while the number of mining operations increased by sixty-eight over 1957.

	Mines		Mills, Plants, Smelters		Quarries, Clay Mines & Pits		Placers		Projects	Oil Wells	Totals
	No.	Men	No.	Men	No.	Men	No.	Men	Men	Men	Men
District 1...	98	425	33	405	52	213	5	124	524	1,277	2,968
District 2....	33	244	4	104	29	193	2	71	96	280	988
District 3....	46	1,485	19	1,418	9	65	4	61	1,052	840	4,921
District 4....	459	3,086	15	1,342	1	5	1	54	1,009	375	5,871
Totals	636	5,240	71	3,269	91	476	12	310	2,681	2,772	14,748

TOTAL MEN EMPLOYED

	Underground	Surface	Oil Wells	Totals
District 1.....	520	1,171	1,277	2,968
District 2.....	267	441	280	988
District 3.....	1,653	2,428	840	4,921
District 4.....	2,290	3,206	375	5,871
Totals	4,730	7,246	2,772	14,748

MEN EMPLOYED IN

Gold, Silver Copper, Lead, Zinc	Molybdenum	Uranium	Oil Wells	Other	Total
1,000	1,900	5,000	2,772	4,076	14,748

Inspections

A total of 1,158 complete safety inspections was made during the year by the six inspectors of the department. Although many base metal and tungsten properties were idle, an increase in other mining activities kept the average number of operations about equal to 1957. More frequent and thorough inspections were possible in Districts 1, 2 and 3, due to fewer operations in these districts. Each operation in these districts was inspected several times during the year and in District 4 each operation was inspected at least once and as many more times as time permitted and necessity required.

1958 INSPECTIONS

Made By

1958	District 1 Blake	District 2 Theobald	District 3 Doyle & Keating	District 4 Ray & Pakka	Totals
January	36	0	23	56	115
February	11	16	21	24	72
March	6	8	20	43	77
April	20	9	32	58	119
May	20	0	25	34	79
June	25	0	47	42	114
July	33	7	30	74	144
August	29	7	26	28	90
September	17	3	20	28	68
October	28	6	35	33	102
November	25	8	20	33	86
December	27	2	26	37	92
Totals	277	66	325	490	1,158

	Mines	Quarries & Clay Mines	Mills, & Plants & Smelters	Placers	Projects	Oil Wells	Totals
District 1	95	53	42	1	18	66	275
District 2	33	21	4	1	1	13	73
District 3	76	20	56	0	75	96	323
District 4	420	0	17	0	18	32	487
Totals	624	94	119	2	112	207	1,158

Information Reports

In addition to the regular inspection reports filed with this office, 670 complete Information Reports were received from the inspectors during 1958. These Information Reports give pertinent information on individual operating properties which is compiled during the year from one or more visitations at the property. This information is on file at the Bureau of Mines office and can be reviewed by the interested public.

1958 INFORMATION REPORTS

1958	Made By				Totals
	District 1 Blake	District 2 Theobald	District 3 Doyle & Keating	District 4 Ray & Pakka	
January	2	0	23	47	72
February	5	0	3	48	56
March	1	0	0	41	42
April	0	0	4	43	47
May	9	0	1	19	29
June	23	13	7	51	94
July	10	29	6	33	78
August	12	2	3	14	31
September	5	12	16	31	64
October	9	3	4	24	40
November	16	2	2	18	38
December	18	9	4	48	79
Totals	110	70	73	417	670

	Quarries & Mills, Clay Plants & Mines Smelters					Oil Wells	Totals
	Mines	Mines	Placers	Projects			
District 1	63	17	10	7	6	7	110
District 2	34	27	5	2	2	0	70
District 3	45	2	8	2	5	11	73
District 4	389	0	11	6	8	3	417
Total	531	46	34	17	21	21	670

TOTAL INSPECTIONS, PARTIAL INSPECTIONS AND INFORMATION DATA

District 1	District 2	District 3	District 4	Total
385	143	396	904	1,828

List of Operating Mines in Various Counties in Colorado—1958

OPERATING MINES IN BACA COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
Locklin	Utleyville	Baca Mining & Milling, Inc.	716 Main St., Springfield	Copper

OPERATING MINES IN BOULDER COUNTY

Blue Bird	Nederland	Blue Bird Mines	Box 397, Nederland	Silver, Lead
Blue Stone Lode	Caribou	R. E. Clarida & W. L. Stephenson	3120 W. Arizona, Denver 19	Copper
Boulder County Tunnel	Nederland	H. W. Low Estate	4882 Elm Court, Denver 21	Silver, Lead
Cash Gulch	Cash Gulch	Utex Exploration Co.	Moab, Utah	Gold, Silver
Dail Owen	Ward	Chase & Ross	10101 W. 9th Dr., Lakewood	Gold
Emmett	Jamestown	Harry M. Williamson & Son	Box 431, Boulder	Fluorspar
Golden Age	Castle Gulch	Smuggler View	240 First Nat'l Bank Bldg., Omaha, Nebr.	Gold
Golden Princess	Rowena	Mountain Top Mining Co.	Jamestown Star Route, Boulder	Gold, Silver
Jamestown (Burlington)	Jamestown	General Chemical Division, Allied Chemical & Dye Corp.	Box 228, Boulder	Fluorspar
La Salle No. 1 (Fair Day)	Jamestown	La Salle Mining Co.	Box 171, Jamestown	Uranium
Moon	Ward	Chase & Ross	10101 W. 9th Dr., Lakewood	Silver, Lead
Mountain Squaw	Ward	Continental Materials Corp.	Box 1550, Grand Junction	Uranium
Occidental	Ward	Colorado Minerals, Inc.	Box 43, Boulder	Gold, Silver, Lead, Copper
Pino Shade	Jamestown	Joel Cornish	1204 First Nat'l Bank Bldg., Omaha, Nebr.	Gold
Rex	Summerville	William E. Brewster	Salina Star Route, Boulder	Gold, Silver
Sun	Ward	Chase & Ross	10101 W. 9th Dr., Lakewood	Gold
Tungsten	Nederland	Tungsten Mining Co.	420 Pine St., Boulder	Tungsten
White Raven	Ward	White Raven Mining Co.	2000 Marine St., Boulder	Silver, Lead

OPERATING MINES IN CHAFFEE COUNTY

C Y A C (Antero)	Antero Mtn.	C Y A C Mining & Development Co., Inc.	Box 681, Salida	Beryl
Gold Eagle	Mt. Shavano	Gold Eagle Mining Co., Inc.	General Delivery, Poncha Springs	Gold, Silver, Lead
Shirley Group of Claims	Ute Trail	Beryllium Corp. of America	415 Symes Bldg., Denver 2	Beryl
Slim's Chance	Red Mtn.	Slim's Chance Mining Co.	1104 S. Ogden St., Denver 10	Gold, Silver
Stoneywall	Nathrop	Divide Lead-Silver Mining Corp.	Box 295, Leadville	Silver, Lead, Zinc
Valley View Nos. 1, 2, 3, 4	Ute Trail	Silver Rocker M. & D. Co.	Salida	Manganese
Wapawa	Buena Vista	Natural Power Co. of America	302 Nat'l Bank of Commerce Bldg., Tulsa, Okla.	Copper

OPERATING MINES IN CLEAR CREEK COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
Alma Lincoln	Spanish Bar	Alma Lincoln Mining Co.	Idaho Springs	Tourist
Ashland	Virginia Canyon	Lacock, Young & Kingery	Box 716, Idaho Springs	Gold, Silver, Lead
Bald Eagle	Virginia Canyon	Jacpot Oil Co.	308 Travel Center Bldg., Denver 2	Gold, Silver, Lead
Bellvue Hudson	Lawson	Gold Coin Mining Co.	2106 Broadway, Denver 5	Gold, Silver, Lead
Brandt Ranch	Floyd Hill	The Success Mining & Exploration Co.	Box 15, Idaho Springs	Beryl
Capitol	Dumont	The Success Mining & Exploration Co.	Box 15, Idaho Springs	Silver, Lead
Crazy Girl Tunnel	Spring Gulch	Rhine Mackey Mines	2550 Yarrow, Denver 15	Silver, Lead
Dixie	Ute Creek	Vicon, Inc.	1353 Mesita Rd., Colorado Springs	Gold, Silver
Drummond No. 4	Lawson	J. B. Traynor	Lawson	Silver, Lead
Fourth of July	Virginia Canyon	Komo Mines, Inc.	Box 283, Idaho Springs	Gold, Silver, Lead
Franklin	Gilson Gulch	Franklin Silver Age Mining Co.	c/o Frank Prince, Wilson, Kans.	Gold, Silver, Lead
Freighter's Friend	Gilson Gulch	G. B. L. Mining Co.	812 Emporia St., Aurora	Gold, Silver, Lead
Gold Anchor	Alice	Alice	Box 44, Ada, Okla.	Gold
Grover	Beaver Brook Canyon	Joe Grover	Evergreen	Feldspar
Hot Pot	Virginia Canyon	Fall River Exploration & Mining Co.	Box 32, Idaho Springs	Gold, Silver, Lead
Keast Tunnel	Trail Creek	Gilpin Uranium, Inc.	1128 Colorado Blvd., Idaho Springs	Gold, Silver, Lead
Keith	Bergen Park	Keith Echinger	Route 1, Evergreen	Beryl
King Cyrus Nos. 1 & 2	Idaho Springs	Charles Seymour	303 W. 53rd Ave., Denver 21	Tourist
Kitty Clyde	Spring Gulch	Kitty Clyde Leasing Co.	Idaho Springs	Gold, Silver, Lead
Lake Central Project (Big 5 Tunnel)	Idaho Springs	Contract Engineering Co.	1727 Boulder St., Denver 11	Gold, Silver, Lead
Lafayette	Spanish Bar	David H. Petske	Box 312, Idaho Springs	Gold, Silver, Lead, Copper
Little Ella	Hugo Gulch	Klopp & Weirick	Box 14, Lawson	Gold, Silver, Lead
Lone Star No. 6	Clear Creek	Lone Star Mining Co.	Box 6, Idaho Springs	Tourist and Health
Mayflower	Spanish Bar	David H. Petske	Box 312, Idaho Springs	Gold, Silver, Lead
Miami Tunnel (Edgar)	Idaho Springs	Colorado School of Mines	Golden	Instruction
Park Side	Idaho Springs	Haef Leavitt, et al.	Idaho Springs	Gold, Silver, Lead
Roote Ranch	Gilson Gulch	Owens & Swenson	Box 873, Idaho Springs	Uranium
Silver Age	Gilson Gulch	The Success Mining & Exploration Co.	Box 15, Idaho Springs	Rare Earths
Sky Rocket	Spring Gulch	Sky Rocket Mining Co.	Box 6, Idaho Springs	Gold, Silver
Stanley Tunnel	Spanish Bar	Furstenberg Brothers	678 Cook St., Denver 6	Gold, Silver, Lead
Tropics	Virginia Canyon	Gold Coin Mining Co.	2106 Broadway, Denver 5	Gold, Silver, Lead

OPERATING MINES IN CUSTER COUNTY

Anna Lee	Brush Hollow	Gendev Corp.	Independence Bldg., Colorado Springs	Thorium
Big Bonnie	Rosita	S. N. Mining Co., Inc.	Box 732, Cheyenne, Wyo.	Silver
Buckeye-Holt	Ophir Creek	Decker & Eisenhour	Wetmore	Silver
Crestone	Colony Creek	The Crestone Co.	Box 27, Westcliffe	Uranium
Gold Nugget	Rosita	Cecil F. Parsons	Box 24, Rosita	Exploration
Mary Christine Shaft	Rosita	Calico Minerals, Inc.	Box 66, Silver Cliff	Thorium
Tomsick	Silver Park	Dr. G. J. Budd & Associates	1004 Maren St., Vallejo, Calif.	Thorium
Iron Clad Mountain	Spring	Jones Brothers Rico Argentine Mining Co.	Rico	Silver, Lead, Zinc
St. Louis Mine	Rico	Jones Brothers Rico Argentine Mining Co.	Rico	Iron, Silver, Lead, Zinc
St. Louis Tunnel	Rico	Jones Brothers Rico Argentine Mining Co.	Rico	Zinc
				Gold, Lead, Zinc
				Lead, Silver, Zinc,
				Pyrites

OPERATING MINES IN DOLORES COUNTY

OPERATING MINES IN EAGLE COUNTY

Eagle	Gilman	The New Jersey Zinc Co.	Gilman	Silver, Lead, Zinc, Copper
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OPERATING MINES IN EL PASO COUNTY

Kathryn Twenty-One	S.E. Fort Carson Cliff & Creek Uranium Co.	440 Independence Bldg., Colorado Springs	Uranium
	Corley Mtn. Highway	Colorado Springs	Thorium

OPERATING MINES IN FREMONT COUNTY

Joan Oliver Smaller	Tallahassee Area V & V Construction Co.	Florence	Uranium
	Tallahassee Area Glenn D. Williams	Hotel Canon, Canon City	Uranium
	Tallahassee Area Smaller Mining Co.	Box 768, Canon City	Uranium

OPERATING MINES IN GARFIELD COUNTY

Oil Shale Mine	Rifle	Utah Construction Co.	100 Bush St., San Francisco, Calif.	Oil Shale
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OPERATING MINES IN GILPIN COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
Angelo Pit	Black Hawk	Silver Lane Mining Co.	2021 West St., Pueblo	Gold, Silver
Boitail Tunnel	Black Hawk	Gus Bakos & Robert Hollenback	Black Hawk	Tourist
Bondle Nos. 1 & 2	Central City	William K. Guthrie, Jr.	Box 662, Central City	Gold, Silver, Lead
Chemons	Perigo Road	J. R. Clemens	2423 W. Evans, Denver 23	Silver, Lead, Zinc
Diamond Lil	Central City	William C. Russell, Jr.	Central City	Gold, Silver, Lead, Zinc
Elk Horn Gulch	Elk Horn Gulch	Elk Valley Mining Co.	6851 N. Pecos, Denver 11	Gold, Silver, Copper
Hayes & Wheeler	Central City	Hayes-Wheeler Syndicate	4755 Newton, Denver 11	Gold, Silver, Lead
La Crosse (Gilroy Hole)	Nevadaville	Glory Hole, Inc.	Central City	Gold, Silver, Lead, Zinc, Copper
Little Colonel	Black Hawk	Black Hawk Trading Post	Black Hawk	Tourist
Lost Gold Mine	Central City	Faye M. Clapham	Box 201, Central City	Tourist
Mammoth	Central City	Morrison & Skinner	Box 824 Idaho Springs	Gold, Silver, Copper
Meeker Success	Lake Gulch	George W. Gabriel, Jr.	Box 209, Route 1, Morrison	Gold, Lead
Morning Star	Elk Horn Gulch	Porter, Kelly & Miller	Idaho Springs	Gold, Silver, Lead
No Name Placer	Hughesville	Blake Brothers	Black Hawk	Gold
Philadelphia	Freeman Gulch	Charles A. Slusher	Route 2, Box 413, Arvada	Gold, Silver, Lead
Pittsburgh	Lake Gulch	Pittsburgh-Notaway Mines	Box 67, Central City	Gold, Silver, Copper
Sixteen to One	Lake Gulch	Blake Brothers	Black Hawk	Gold, Silver, Lead
Spring Day Extension	Leavenworth Gulch	Spring Day Mining Co.	Box 395, Central City	Gold, Silver, Lead, Copper
Three B's Group	Silver Creek	Blake Brothers	c/o Dowell Blake, Black Hawk	Gold, Copper
Toll Gate	Black Hawk	Mike McNulty	Black Hawk	Tourist
Townsend King	Hughesville	Blake Brothers	c/o Dowell Blake, Black Hawk	Silver, Lead
Wegoten	Silver Creek	Garrick & Ellison	Central City	Gold, Silver, Lead, Copper
White House	Mosquito Gulch	Arlio E. Winn	7820 Niagara St., Derby	Gold
Wilma	Jenny Lind	Nye-Mathews Mining, Inc.	Black Hawk	Molybdenum

OPERATING MINES IN GUNNISON COUNTY

Alhambra No. 2	Cumberland Pass	Ernest E. Miller	Box 315, Gunnison	Lead
Enterprise	Taylor Park	Roy Carpenter	Box 11, Montrose	Silver, Lead
Gold Links	Gold Creek	H. L. Bird	Box 15, Ohio City	Gold, Silver, Lead
Green Hawk	East Elder Creek	H. E. Hancock & Leonard Arendell	Pitkin	Beryl
High and Mighty	Palmy Mtn.	G. R. Bennett	Box 576, Crested Butte	Gold, Silver, Lead
Hot Rock Group	Tincup	Hugh Corrigan	Tincup	Silver, Lead
June Bug	Hall Creek	K & K Mining Co.	Route 1, Box 186, Montrose	Gold, Silver, Copper
Keystone	Crested Butte	American Smelting & Refining Co.	Crested Butte	Gold, Silver, Lead, Zinc
Lepidolite No. 2	Whiskey Gulch	U. S. Lithium Co.	312 Walker Bank Bldg., Salt Lake City, Utah	Lithium
Little Indian & Pitch Tunnel	Indian Creek	Pinnacle Exploration, Inc.	217 Main St., Gunnison	Uranium
Matchless	Taylor Park	Keith & Andrews	Box 87, Nuclea	Uranium
Micawber	Elk Basin	Standard Uranium Corp.	Gunnison	Gold, Silver, Lead, Zinc

North Star Silver Chief	Dutchman Gulch Templeton & Campbell Schofield Park Silver Chief Co.	Box 22, Nucla Box 515, Paonia	Uranium Gold, Silver, Lead, Zinc
Silver Spruce Skyline No. 1	Bellevue Mtn. Washington Gulch	Box 148, Gunnison	Silver, Lead, Copper
Star Titan	Italian Mtn. Powderhorn	Crested Butte Box 567, Gunnison Powderhorn	Gold, Silver, Lead Gold, Silver, Lead Vermiculite
Nellie Creek Pride of America Resorgimento	Hansen Creek Hansen Creek	Gunnison Mining Co. K. C. Knapp Wellman & Long	Uranium Gold, Silver, Lead Zinc

OPERATING MINES IN HINSDALE COUNTY

OPERATING MINES IN JACKSON COUNTY

Barbara Ann Ozark-Mahoning Mines	Walden Cowdrey	Frederick Dodge Ozark-Mahoning Co.	Copper Fluorspar
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OPERATING MINES IN JEFFERSON COUNTY

Footfalls Grapevine Mann No. 1 Mena	Idledale Idledale Soda Lake Rulston Creek	Footfalls Mining Co. Grapevine Mining Co., Inc. Uranium Enterprises, Inc. Joseph W. Walsh	3240 6th St., Boulder Morrison 310 S. 40th St., Boulder 4925 Montview Blvd., Denver 7	Uranium Uranium Uranium Uranium
Nare	Golden Gate Canyon	L. D. Ohman	800 Bonnie Brae Blvd., Denver 9	Uranium
Pallaro Lease Schwartzwalder	Soda Lake Rulston Creek	Four Corners Uranium Co. Denver-Golden Oil & Uranium Co.	Mile High Center, Denver 2 1820 First Nat'l Bank Bldg., Denver 2	Uranium Uranium
Seven Devils	Waterton	Continental Materials Corp.	Box 1550, Grand Junction	Uranium

OPERATING MINES IN LAKE COUNTY

Climax Mines Eureka	Climax Independence Pass	Climax Molybdenum Co.	Climax	Molybdenum
Giant Lode Mine Gordon Tiger No. 4 M. R. Claims	English Gulch Mt. Elbert Mt. Elbert	Saturday Night Mining Co. Rollo W. Shaffner, Jr. Chris Kastros Denzel A. Hatch	Twin Lakes Box 662, Climax E. 11th St., Leadville Twin Lakes	Gold, Silver, Lead Gold, Silver Lead, Silver, Lead, Zinc
Tom Thumb	Mt. Elbert	Denzel A. Hatch	Twin Lakes	Gold, Silver, Lead

OPERATING MINES IN LA PLATA COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
Brawner Tunnel	La Plata Canyon	Steward Brothers	Box 1303, Durango	Gold, Silver, Lead, Zinc
Lady Eleanor	La Plata Canyon	E. M. Myers	Box 3151, Durango	Gold, Silver, Lead, Copper
Mary Alice	La Plata Canyon	Cummings & Browning	508 E. Main, Farmington, New Mexico	Gold, Silver, Copper
Muldoon	Muldoon Mtn.	H. E. Knudsen	476 2nd Ave., Durango	Gold, Silver
Rosnite	La Plata Canyon	Oregon Mining Co.	Box 56, Hesperus	Gold, Silver, Copper

OPERATING MINES IN LARIMER COUNTY

Big Boulder Prospect Consolidated	Buckhorn Gulch	Alphim Mining Co.	Jamestown	Beryl
Corral Pole Nos. 1 & 2	Buckhorn Canyon	Consolidated Gold & Uranium Corp.	1187 Stout St., Denver 4	Beryl
Donell Group	Buckhorn Canyon	Arthur Johnson	625 Mathews St., Fort Collins	Beryl
	Storm Mtn.	American Beryl Corp.	125 1/2 N. Sherwood St., Fort Collins	Beryl
Hide Above Lode	Masonville	National Beryl & Mining Corp.	Box 1349, Estes Park	Beryl
Hide Away Lode	Masonville	Wild & Frandsen	110 W. 10th St., Loveland	Beryl
Hill Top Group	Bear Gulch	American Beryl Corp.	125 1/2 N. Sherwood, Fort Collins	Beryl
Jay Dee Bee	Buckhorn Canyon	Keystone Beryllium Corp.	Travel Center Bldg., Denver 2	Beryl
Lucky Rosemary	Goove Prairie Junction	Vannorsdel, Colard & Shaw	Bellvue (Star Route)	Beryl

OPERATING MINES IN MESA COUNTY

Arrowhead No. 21	Calamity Mesa	Norman Wellman	Box 1901, Grand Junction	Uranium, Vanadium
Arrowhead No. 22	Calamity Mesa	A. C. Rinderle	404 Sherman Dr., Grand Junction	Uranium, Vanadium
Arrowhead Nos. 23 & 24	Arrowhead Mesa	Sterry Brothers	Route 5, Grand Junction	Uranium, Vanadium
Arrowhead Incline No. 5	Calamity Mesa	Norman Wellman	Box 1901, Grand Junction	Uranium, Vanadium
Arrowhead Incline No. 12	Calamity Mesa	A. C. Rinderle	404 Sherman Dr., Grand Junction	Uranium, Vanadium
Belmont No. 3	Calamity Mesa	Ben Zimmerman	2940 1/2 F. Road, Grand Junction	Uranium, Vanadium
Black Jumbo	Mesa Creek	Deal Mining Co.	American Bldg., Fort Collins	Uranium, Vanadium
Black Mama	Tenderfoot	Mesa Jack Montgomery	Gateway	Uranium, Vanadium
Black Streak	Blue Mesa	Valley Mining Co.	Box 248, Moab, Utah	Uranium, Vanadium
Blue Ribbon No. 2	Arrowhead Mesa	Calvin Picklin	Box 1861, Grand Junction	Uranium, Vanadium
Blue Ribbon Incline No. 3	Calamity Mesa	Norman Wellman	Box 1901, Grand Junction	Uranium, Vanadium
Bonanza Adit No. 3	Calamity Mesa	Lyle F. Campbell	Box 1698, Grand Junction	Uranium, Vanadium
Calamity No. 1	Calamity Mesa	John Ricks	262 1/2-29 1/2 Road, Grand Junction	Uranium, Vanadium

Calamity No. 6	Calamity Mesa	Gardner & Son Mining Co.	Box 505, Grand Junction	Uranium, Vanadium
Calamity No. 10	Calamity Mesa	Ben Zimmerman	2940 1/2 F Road, Grand Junction	Uranium, Vanadium
Calamity Nos. 11 & 17	Calamity Mesa	Ace Turner	Box 661, Fruita	Uranium, Vanadium
Calamity No. 20	Calamity Mesa	Gardner & Son Mining Co.	Box 505, Grand Junction	Uranium, Vanadium
Calamity Nos. 21 & 27	Calamity Mesa	Workman Brothers	Urayan	Uranium, Vanadium
Century Tunnel	Beaver Mesa	Argo Mining Co.	Box 1698, Grand Junction	Uranium, Vanadium
Cherokee	Beaver Mesa	Beaver Mesa Uranium Co.	Box 567, Grand Junction	Uranium, Vanadium
Deer Run No. 1	Blue Creek	Deer Mining Co.	American Bldg., Fort Collins	Uranium, Vanadium
Depression No. 5	Flat Top	Bolles Brothers	1415 N. 15th St., Grand Junction	Uranium, Vanadium
Depression No. 6	Flat Top	Lodestar Uranium, Inc.	Box 1550, Grand Junction	Uranium, Vanadium
East Queen of Hills	Calamity Mesa	Ben Zimmerman	2940 1/2 F Road, Grand Junction	Uranium, Vanadium
Elizabeth Nos. 3 & 17	Blue Mesa	George Liverman & C. Cunningham	2236 Orchard, Grand Junction	Uranium, Vanadium
Elizabeth No. 18	Blue Mesa	Zanett Mining Co.	Box 1901, Grand Junction	Uranium, Vanadium
Government 1	Outlaw Mesa	Clinax Uranium Co.	Route 4, Grand Junction	Uranium, Vanadium
		H. L. Arbogast	Box 1481, Grand Junction	Uranium, Vanadium
		E. E. Lewis	Box 1481, Grand Junction	Uranium, Vanadium
Government 2	Outlaw Mesa	Sterry Brothers	Route 5, Grand Junction	Uranium, Vanadium
Government 3	Outlaw Mesa	Clinax Uranium Co.	Box 1901, Grand Junction	Uranium, Vanadium
Government 4	Outlaw Mesa	Floyd Smith	119 White Ave., Grand Junction	Uranium, Vanadium
Great Hesper	Calamity Mesa	Melvin Green	204 Railroad Ave., Rifle	Uranium, Vanadium
Hanson-Negus	Outlaw Mesa	H. L. Arbogast	Route 4, Grand Junction	Uranium, Vanadium
		Ira Adamson	Box 1636, Grand Junction	Uranium, Vanadium
Henderson	Outlaw Mesa	Orr Mining Co.	Box 1636, Grand Junction	Uranium, Vanadium
Hope Group	Blue Mesa	Poland Construction Co.	Box 201, Urayan	Uranium, Vanadium
Hope No. 2	Blue Mesa	Deal Mining Co.	Box 567, Grand Junction	Uranium, Vanadium
Hubbard Drift	Beaver Mesa	Beaver Mesa Uranium Co.	Box 1336, Grand Junction	Uranium, Vanadium
Jean No. 2	Outlaw Mesa	Edgar Ball	Box 201, Urayan	Uranium, Vanadium
Jody Group	Blue Mesa	Deal Mining Co.	274 27 Road, Grand Junction	Uranium, Vanadium
Karns Incline	Beaver Mesa	E. S. Knizley	Box 287, Montrose	Uranium, Vanadium
La Sal	Beaver Mesa	Flinders Mining Co.	Box 861, Grand Junction	Uranium, Vanadium
La Sal Lease	Beaver Mesa	Lee Hetzel	Clifton	Uranium, Vanadium
Lisbon (Thornton Tunnel)	Beaver Mesa	Charles V. Woodard	2909 U. S. Highway 50, Grand Junction	Uranium, Vanadium
Lucky Boy	Calamity Mesa	William Meese	Box 85, Rifle	Uranium, Vanadium
Lumsden Nos. 2 & 6	Beaver Mesa	Ralph D. Hickman	Route 5, Grand Junction	Uranium, Vanadium
Matchless	Calamity Mesa	Nesce, Moulton & Jordan	Box 266, Rifle	Uranium, Vanadium
Mesa No. 5, Inclines 1 & 2	Outlaw Mesa	Herbert Foster	1217 Colorado Ave., Grand Junction	Uranium, Vanadium
Mesa No. 8	Outlaw Mesa	Ralph Foster & Sons	1217 Colorado Ave., Grand Junction	Uranium, Vanadium
Mineral Channel No. 12	Outlaw Mesa	E. E. Lewis	Box 1481, Grand Junction	Uranium, Vanadium
New Verde (Horn Group)	Calamity Mesa	H. L. Arbogast	Route 4, Grand Junction	Uranium, Vanadium
October Adit	John Brown Mesa	Vanadium Corp. of America	Durango	Uranium, Vanadium
		Thomas W. Holmes	1831 N. 9th St., Grand Junction	Uranium, Vanadium
Packrat Group	Beaver Mesa	Beaver Mesa Uranium Co.	Box 567, Grand Junction	Uranium, Vanadium
Rajah No. 28	Beaver Mesa	Model Mining Co.	Box 1105, Grand Junction	Uranium, Vanadium
Rajah No. 68	Beaver Mesa	Beaver Mesa Uranium Co.	Box 567, Grand Junction	Uranium, Vanadium
Ronnie No. 1	Outlaw Mesa	Cleo Fears	c/o Box 1901, Grand Junction	Uranium, Vanadium

OPERATING MINES IN MESA COUNTY (Continued)

Name of Mine	Location	Operator	P. O. Address	Product
Sun Spot	Beaver Mesa	Edward Horn	Box 743, Rifle	Uranium, Vanadium
Sunflower	Calamity Mesa	John W. Hicks	Route 4, Grand Junction	Uranium, Vanadium
Thundercloud	Beaver Mesa	Edward Horn	Box 743, Rifle	Uranium, Vanadium
Trojan No. 20	Outlaw Mesa	DeVar Shumway	215 Lands Down Rd., Grand Junction	Uranium, Vanadium
White, Green & Addison Associates, Inc.	Outlaw Mesa	White, Green & Addison Associates, Inc.	Boston Bldg., Denver 2	Uranium, Vanadium
Yellow Jacket No. 16	Calamity Mesa	Noiman Wellman	Box 1901, Grand Junction	Uranium, Vanadium
Yellow Jacket Incline	Calamity Mesa	Ira Adamson	226 29 Road, Grand Junction	Uranium, Vanadium
No. 15	Calamity Mesa	Ira Adamson	226 29 Road, Grand Junction	Uranium, Vanadium

OPERATING MINES IN MINERAL COUNTY

Amethyst	East Willow Creek	Emperius Mining Co.	Creede	Silver, Lead, Zinc
Commodore	East Willow Creek	Emperius Mining Co.	Creede	Silver, Lead, Zinc
Holy Moses	West Willow Creek	Sublet Mining Co.	Creede	Silver, Lead, Zinc
Monon	Sunnyside	Monon Leasing Co.	Creede	Silver, Lead, Zinc
Outlet Tunnel	East Willow Creek	Outlet Mining Co.	Creede	Silver, Lead, Zinc

OPERATING MINES IN MOFFAT COUNTY

Buffalo Head	Maybell	Buffalo Head Mining Co.	Box 964, Craig	Uranium
Butler Lease	Craig	Pioneer Exploration Co.	700 Taylor St., Craig	Uranium
Trace Elements Pits	Maybell	Trace Elements Corp.	Maybell	Uranium

OPERATING MINES IN MONTEZUMA COUNTY

Blue Eagle	Cross Canyon	Elree Young	Sage Route, Dove Creek	Uranium, Vanadium
Gold Dollar	East Mancos River	Minerals Consolidated, Inc.	403 Felt Bldg., Salt Lake City, Utah	Gold, Silver
Red Arrow Group	East Mancos River	First National Oil & Minerals Co.	Box 205, Mancos	Gold, Silver, Copper
Yellow Lizzard	Cross Canyon	Elree Young	Sage Route, Dove Creek	Uranium, Vanadium

OPERATING MINES IN MONTROSE COUNTY

Adak	Dolores Rim	Rex Uranium Co.	Farmlington, New Mexico	Uranium, Vanadium
All Star	Spring Creek Mesa	DeVar Shumway	215 Lands Down Rd., Grand Junction	Uranium, Vanadium
American Eagle No. 4	Little Gypsum Valley	American Eagle Lease	Norwood	Uranium, Vanadium
American Eagle No. 8	Gypsum Valley	Stanley Oliver	Norwood	Uranium, Vanadium
Arcturus	Monogram Mesa	Albert Fish	Box 485, Nucla	Uranium, Vanadium
Aztec Group	Monogram Mesa	C. N. Athey	Box 156, Naturita	Uranium, Vanadium
Baby Fawn	Bull Canyon	Vanadium Corp. of America	Durango	Uranium, Vanadium
Baby Ruth	Bull Canyon	Clair Albano	Naturita	Uranium, Vanadium
Badger	Martin Mesa	Silver Lane Mining Co.	2021 West St., Pueblo	Uranium, Vanadium
Beaver	Club Mesa	Lark Washburn	Box 850, Uravan	Uranium, Vanadium
Belva	Carpenter Flats	KAO Mining Co.	Uravan	Uranium, Vanadium
Bernard South	Long Park	C. C. Sanders	Box 431, Nucla	Uranium, Vanadium
Betty Jean	Martin Mesa	Clifton Carter	Uravan	Uranium, Vanadium
Bitter Creek	Long Park	Gordon Reed & Edward Smith	Naturita	Uranium, Vanadium
Black Dinah	Long Park	Russell Mayfield	Box 156, Naturita	Uranium, Vanadium
Black Foot N. & S.	Eagle Basin	Glenn W. Berry	331 24 Road, Grand Junction	Uranium, Vanadium
Black Tom	Monogram Mesa	C. N. Athey	Nucla	Uranium, Vanadium
Blackburn	Monogram Mesa	Ted Stone & Sage Brothers	Box 850, Uravan	Uranium, Vanadium
Blitz	Long Park	Lark Washburn	Box 27, Nucla	Uranium, Vanadium
Bluebird	Dolores Rim	Cecil Bunker	Box 448-L, Uravan	Uranium, Vanadium
Bowen No. 1	Atkinson Mesa	Golden Cycle Corp.	Naturita	Uranium, Vanadium
Buckeye	Long Park	Gordon Reed & Edward Smith	Box 27, Nucla	Uranium, Vanadium
Buckhorn	Carpenter Ridge	Cecil Bunker	Box 27, Nucla	Uranium, Vanadium
Butterfly	Yellow Bird			Uranium, Vanadium
	Bench	Hess Drilling Co.	421 Glenwood Ave., Grand Junction	Uranium, Vanadium
Calvert	Pull Canyon	Emerson Williams	Box 335, Nucla	Uranium, Vanadium
Canopus	Monogram Mesa	Joe Weaver	Box 393, Nucla	Uranium, Vanadium
Capella	Monogram Mesa	Union Carbide Nuclear Co.	Uravan	Uranium, Vanadium
Cashin	La Sal Creek	L. W. Mining Co.	Fiedling, Utah	Silver, Copper
Chiff Dweller	Dolores Rim	Vanadium Corp. of America	Durango	Uranium, Vanadium
Club Group	Club Mesa	Lark Washburn	Box 850, Uravan	Uranium, Vanadium
Club Sandwich	Dolores Rim	F. V. Binder	3500 Main St., Durango	Uranium, Vanadium
Colorado	Long Park	Booth Eckman	Box 127, Nucla	Uranium, Vanadium
Cripple Creek	Long Park	Dan Kelly	Route 4, Grand Junction	Uranium, Vanadium
Cripple Creek No. 2	Long Park	Booth Eckman	Box 127, Nucla	Uranium, Vanadium
Dan Patch (South)	Long Park	R. G. Simms	Box 662, Rifle	Uranium, Vanadium
Deer Shaft	Long Park	Union Carbide Nuclear Co.	Uravan	Uranium, Vanadium
Diana	Bull Canyon	E. J. Alongo	Naturita	Uranium, Vanadium
Doggy Tunnel	Monogram Mesa	C. N. Athey	Box 156, Naturita	Uranium, Vanadium
Dolores	Monogram Mesa	Harold Kincaide	Box 324, Naturita	Uranium, Vanadium
Donald L	Long Park	Vanadium Corp. of America	Durango	Uranium, Vanadium
Donna K	Long Park	Vanadium Corp. of America	Durango	Uranium, Vanadium
Dorothy	Long Park	Larry Phillips & D. Pierce	Box 345, Naturita	Uranium, Vanadium
Dorothy Jean	Monogram Mesa	Carl Tucker	Box 461, Grand Valley	Uranium, Vanadium
Dorothy Jean No. 2	Wild Steer Mesa	T. S. Wolyerton & Wilkins	Box 284, Uravan	Uranium, Vanadium
Duchess No. 1	Martin Mesa	Pretty Blue Mining Co.	Box 377, Placerville	Uranium, Vanadium
Duchess No. 2	Martin Mesa	Harvey Holt	Box 223, Norwood	Uranium, Vanadium
Dusty (ML-23) Lease	Long Park	Vanadium Corp. of America	Durango	Uranium, Vanadium

OPERATING MINES IN MONTROSE COUNTY (Continued)

Name of Mine	Location	Operator	P. O. Address	Product
East Dolores	Dolores Rim	Harold Kincade	Box 324, Naturita	Uranium, Vanadium
East Opera Box	Monogram Mesa	C. N. Athey	Box 156, Naturita	Uranium, Vanadium
El Lipse	Carpenter Flats	Marion Crandell	Box 177, Naturita	Uranium, Vanadium
Elipnox	Dolores Rim	Reed, Belsile & Reed	Box 325, Naturita	Uranium, Vanadium
Evening Star Incline No. 1				
(Soldier Boy No. 1)	Lion Creek	Charles E. Davis	Bedrock	Uranium, Vanadium
Fawn Springs No. 7	Bull Canyon	Paul Smith	Box 591, Nucla	Uranium, Vanadium
12, 13, 21	Bull Canyon	Oral Clark & Art Harris	Box 596, Nucla	Uranium, Vanadium
Fawn Springs No. 15	Bull Canyon	Frank Power	Box 395, Uranian	Uranium, Vanadium
Firebird	Long Park	Brickey & Alexander	Box 423, Uranian	Uranium, Vanadium
Firecracker	Long Park	Vanadium Corp. of America	Durango	Uranium, Vanadium
First National Bank	Long Park	Levi Barnes	Nucla	Uranium, Vanadium
Florence Nellie East	Long Park	Neilson & Klingensmith	Box 337, Uranian	Uranium, Vanadium
Fox	Dolores Rim	Delbert Burbridge	Box 187, Nucla	Uranium, Vanadium
Good Hope Nos. 1 & 2	Eagle Basin	Glenn W. Berry	831 24 Road, Grand Junction	Uranium, Vanadium
Gregor Group	Bull Canyon	Climax Uranium Co.	Box 1901, Grand Junction	Uranium, Vanadium
Great Western	Long Park	Lark Washburn	Box 850, Uranian	Uranium, Vanadium
Grey Fox	Eagle Basin	Glenn W. Berry	831 24 Road, Grand Junction	Uranium, Vanadium
Groundhog	Long Park	Brickey & Alexander	Box 423, Uranian	Uranium, Vanadium
Guadalupe	Long Park	La Verne Ray	Box 256, Uranian	Uranium, Vanadium
Henry Clay	Long Park	Roy Franklin	Box 911, Uranian	Uranium, Vanadium
Hidden Basin	Long Park	Vanadium Corp. of America	Durango	Uranium, Vanadium
High Ball Group	Bull Canyon	Frank Elder	Nucla	Uranium, Vanadium
Honeymoon	Uranian	Lark Washburn	Box 850, Uranian	Uranium, Vanadium
Horsehair No. 1	Bull Canyon	Tommy Thompson	Naturita	Uranium, Vanadium
Hot Shot	Wedding Bell	Carl Holder	Box 165, Dove Creek	Uranium, Vanadium
Hummer	Monogram Mesa	Lowell Staats	Nucla	Uranium, Vanadium
Irene	Club Mesa	Frank Stocklase	Uranian	Uranium, Vanadium
J. J. Mine	Monogram Mesa	Dale Sturtevant	Naturita	Uranium, Vanadium
J. M. Mine	Club Mesa	Lark Washburn	Box 850, Uranian	Uranium, Vanadium
Joe Dandy	Dolores Rim	Donald Young	Box 297, Uranian	Uranium, Vanadium
Joe Jr.	Monogram Mesa	Ted Stone & Sage Brothers	Nucla	Uranium, Vanadium
La Salle	Club Mesa	Lark Washburn	Box 850, Uranian	Uranium, Vanadium
Lark Group	Club Mesa	La Salle Mining Co.	Box 217, Grand Junction	Uranium, Vanadium
Little Alice	Bull Canyon	North Standard Mining Co.	Box 605, Provo, Utah	Uranium, Vanadium
Little Alice	Wild Steer Canyon	Vanadium Corp. of America	Durango	Uranium, Vanadium
Little Basin	Uranian	K. R. & D. C. Workman	Box 296, Uranian	Uranium, Vanadium
Little Dick	Dolores Bench	Delbert Burbridge	Box 187, Nucla	Uranium, Vanadium
Little Gyp Group	Little Gypsum Valley	Anschutz Drilling Co.	1411 Mile High Center, Denver 2	Uranium, Vanadium
Long Cabin	Bull Canyon	Reed & Zufelt	Box 298, Naturita	Uranium, Vanadium
Long Pine	Carpenter Ridge	Bill Snyder & Don Carlin	Box 218, Paradox	Uranium, Vanadium
Long Pine No. 2	Carpenter Ridge	Clinton Oliver	Paradox	Uranium, Vanadium
Long Park Incline	Bull Canyon	L. P. Development Co.	433 N. 7th, Grand Junction	Uranium, Vanadium
Long Park No. 1	Long Park	William R. Pierce	Box 548, Uranian	Uranium, Vanadium
Long Park No. 3	Long Park	Warren Kuykendall	Box 195, Naturita	Uranium, Vanadium
Long Park No. 4	Uranian	Russell Mayfield	Box 584, Nucla	Uranium, Vanadium

Long Park No. 6	Long Park	Frank Fedel	Box 473, Uravan	Uranium, Vanadium
Long Park Nos. 9 & 10	Long Park	Leonard J. Hurt	Box 45, Uravan	Uranium, Vanadium
Long Park No. 11	Long Park	Leonard J. Hurt	Box 45, Uravan	Uranium, Vanadium
Long Park No. 12	Long Park	De Var Shumway	215 Lands Down Rd., Grand Junction	Uranium, Vanadium
Long Park No. 13	Long Park	Blake, Powers & Stocklase	Uravan	Uranium, Vanadium
Lower Oversight	Monogram Mesa	Lowell Staats	Nuclea	Uranium, Vanadium
Luckie Boulder	Club Mesa	Russell Mayfield	Naturita	Uranium, Vanadium
Lucky Dog Incline & Shaft	Dolores Rim	Elmer Cole & Jack Bond	Box 36, Uravan	Uranium, Vanadium
Maggie C	Long Park	R. R. Wolf	Box 357, Naturita	Uranium, Vanadium
Maggie C. Dump	Long Park	Raymond King	Uravan	Uranium, Vanadium
Mary Ann No. 4	Long Park	Wilkins & Wolverton	Box 284, Uravan	Uranium, Vanadium
Media	Long Park	James Emmons	Box 161, Naturita	Uranium, Vanadium
Mill No. 1	Club Mesa	O'Bryant & Powell	Box 401, Uravan	Uranium, Vanadium
Mill No. 2	Club Mesa	Joe & Matt Javernick	Box 484, Uravan	Uranium, Vanadium
Mineral Joe No. 11	Monogram Mesa	Glimax Uranium Co.	Box 1901, Grand Junction	Uranium, Vanadium
Mineral Joe Incline No. 1	Monogram Mesa	Fred & Sam Richards	Box 67, Nuclea	Uranium, Vanadium
Mineral Joe Shaft	Monogram Mesa	Climax Uranium Co.	Box 1901, Grand Junction	Uranium, Vanadium
Mineral Park No. 4	Long Park	O. E. Smart	Box 64, Naturita	Uranium, Vanadium
Monster	Club Mesa	Omni-Metals, Inc.	Box 261, Uravan	Uranium, Vanadium
Moonbeam	Long Park	Albert Harnion	Fruta	Uranium, Vanadium
New Campbell	Long Park	Frank Power	Box 395, Uravan	Uranium, Vanadium
New Happy	Long Park	R. C. Williams	Nuclea	Uranium, Vanadium
North Hummer	Monogram	Lowell Staats	3500 Main St., Durango	Uranium, Vanadium
Nuclea	Dolores Rim	F. V. Binder	Uravan	Uranium, Vanadium
Old Happy	Long Park	R. C. Williams	Uravan	Uranium, Vanadium
Old Salt Lick	Club Mesa	Frank Stocklase	Box 27, Nuclea	Uranium, Vanadium
Ophir	Dolores Rim	Cecil Bunker	Nuclea	Uranium, Vanadium
Oversite	Monogram Mesa	Lowell Staats	Uravan	Uranium, Vanadium
Pablo	Dolores Rim	Rex Uranium Corp.	c/ Union Carbide Nuclear Co., Uravan	Uranium, Vanadium
Paradox D	Monogram Mesa	R. D. Johnson		Uranium, Vanadium
Pay Day	Martin Mesa	C. C. P. Mining Co.	Uravan	Uranium, Vanadium
Peanut Nos. 1 & 3	Bull Canyon	A. C. Rinderle	404 Sherman Dr., Grand Junction	Uranium, Vanadium
Peanut Incline No. 2	Bull Canyon	L. P. Gaggini	Grand Junction	Uranium, Vanadium
Pearl Walker	Club Mesa	Marion Trone	Box 376, Uravan	Uranium, Vanadium
Photograph	Long Park	Lark Washburn	Box 850, Uravan	Uranium, Vanadium
Pickett Corral No. 4	Bull Canyon	Stanley Gregor	Box 368, Norwood	Uranium, Vanadium
Pie Face Nos. 1 & 2	Long Park	Louis Chapin	Box 97, Placeville	Uranium, Vanadium
Piper Nos. 1 & 3	Carpenter Flats	Neptune Uranium Corp.	Uravan	Uranium, Vanadium
Point Empire	Martin Mesa	Labrum, Labrum and Palmer	Box 294, Uravan	Uranium, Vanadium
Production	Long Park	R. C. Williams	Box 296, Uravan	Uranium, Vanadium
Quarrel	Bull Canyon	Workman Brothers	Box 243, Naturita	Uranium, Vanadium
Radium Queen	Carpenter Flats	Rex Holland	Box 243, Naturita	Uranium, Vanadium
Rajah	Rock Creek	Vanadium Corp. of America	Durango	Uranium, Vanadium
Ram	Club Mesa	Lark Washburn	Box 850, Uravan	Uranium, Vanadium
Rattlesnake	Eagle Basin	Glenn W. Berry	831 24 Road, Grand Junction	Uranium, Vanadium
Rattlesnake	Long Park	James Patterson	Box 427, Uravan	Uranium, Vanadium
Raven	Club Mesa	Marion Trone	Box 376, Uravan	Uranium, Vanadium
Raven	Little Gypsum Valley			Uranium, Vanadium
Red Fox	Eagle Basin	F. V. Binder	3500 Main St., Durango	Uranium, Vanadium
Red Sox	Dolores Rim	Glenn W. Berry	831 24 Road, Grand Junction	Uranium, Vanadium
Redbed No. 2	Paradox Valley	Walter F. Burnett	Durango	Uranium, Vanadium
			Box 386, Nuclea	Uranium, Vanadium

OPERATING MINES IN MONTROSE COUNTY (Continued)

Name of Mine	Location	Operator	P. O. Address	Product
Redbird	Sylvia's Pocket	Vern L. Bagby	Naturita	Uranium, Vanadium
Redbird	Arpenter Ridge	C. W. Snyder	Box 324, Paradox	Uranium, Vanadium
Redrock No. 5	Martin Mesa	Ernest Berry	Box 237, Naturita	Uranium, Vanadium
Republican	Long Park	Phillip W. Bunker	Durango	Uranium, Vanadium
Reserve Block No. 1	Club Mesa	Harold Price	Box 277, Nucla	Uranium, Vanadium
Rimrock No. 3	Wedding Bell	F. C. Jones	Box 74, Nucla	Uranium, Vanadium
Rimrock No. 5	Wedding Bell	F. C. Jones	Box 545, Blanding, Utah	Uranium, Vanadium
Rimrock Blues No. 6	Bull Canyon	Adolphus Moore	Box H, Naturita	Uranium, Vanadium
Rimrock Blues No. 6	Bull Canyon	Carleton Bishop	Box 206, Naturita	Uranium, Vanadium
Roosevelt	Little Gypsum Valley	Jess Campbell	Naturita	Uranium, Vanadium
St. Patrick	Long Park	Nelson & Klingensmith	Box 337, Uravan	Uranium, Vanadium
Sandy	Atkinson Mesa	Douglas Clegghorn	Box 502, Uravan	Uranium, Vanadium
Sesmo	Long Park	Robert Wolney & Huey Burnett	Naturita	Uranium, Vanadium
Shamrock	Club Mesa	Frank Stocklase	Uravan	Uranium, Vanadium
Sharky	Long Park	Lark Washburn	Box 850, Uravan	Uranium, Vanadium
Shattuck Denn	Club Mesa	Shattuck Denn Mining Corp.	Box 878, Uravan	Uranium, Vanadium
Sirius	Wild Steer	Joe Weaver	Box 393, Nucla	Uranium, Vanadium
Star No. 3 North	Spring Creek			
Starlite No. 7	Mesa	Eugene Barnes	Box 235, Naturita	Uranium, Vanadium
Starlite No. 7	Full Canyon	G. H. Estes	Uravan	Uranium, Vanadium
Steer No. 8	Wild Steer Mesa	Bruno Zanett	Box 276, Ouray	Uranium, Vanadium
Straight Arrow	Long Park	R. O. Grina	Box 173, Naturita	Uranium, Vanadium
Sunbeam	Eagle Basin	London & Johnson	Naturita	Uranium, Vanadium
Sunrise No. 2	Full Canyon	Lee Elder	Box 32, Uravan	Uranium, Vanadium
Sunrise No. 3	Full Canyon	Reed & Zufelt	Box 298, Naturita	Uranium, Vanadium
Sunrise No. 4	Full Canyon	Milton Castor	Box 284, Naturita	Uranium, Vanadium
Sunshine	Long Park	R. O. Grina	Box 173, Naturita	Uranium, Vanadium
Surprise	Club Mesa	Lark Washburn	Box 850, Uravan	Uranium, Vanadium
T. N. T. No. 1	Long Park	Lawrence Ross	Placerville	Uranium, Vanadium
T. N. T. No. 3	Long Park	Vanadium Corp. of America	Purango	Uranium, Vanadium
Teapot Dome	Full Canyon	Joe Cole	Box 274, Naturita	Uranium, Vanadium
Three Jacks	Yellow Bird Bench			
Thunderbolt	Monogram Mesa	Hess Drilling Co.	421 Glenwood Ave., Grand Junction	Uranium, Vanadium
Townhouse	Dolores Rim	Walter Burnett	Box 386, Nucla	Uranium, Vanadium
Tramp Group	Saucer Basin	Ronald Hutton	Box 231, Uravan	Uranium, Vanadium
Triangulation	Long Park	Lark Washburn	Box 850, Uravan	Uranium, Vanadium
U. S. Grant	Saucer Basin	Roy Shumway	Moab, Utah	Uranium, Vanadium
Uncle Sam	Dolores Rim	Marion Trone	Box 376, Uravan	Uranium, Vanadium
Upper Raven	Little Gypsum Valley	Rex Uranium Corp.	Farmington, New Mexico	Uranium, Vanadium
Uranium Girl No. 1	Yellow Bird Bench	Jess Campbell	Naturita	Uranium, Vanadium
Uranus	Monogram Mesa	Ray, Webb & Donaldson Co.	4230 Tennyson St., Denver 12	Uranium, Vanadium
Urcka	Arpenter Ridge	Carl Tucker	Box 461, Grand Valley	Uranium, Vanadium
Vaden View	Wild Steer Canyon	Snyder & Livingston	Paradox	Uranium, Vanadium
Valley View		Vanadium Corp. of America	Durango	Uranium, Vanadium
Valley View (Lower Workings)	Arpenter Ridge	Basin Excavating Corp.	Box 371, Paradox	Uranium, Vanadium

Valley View (Upper Workings)	Carpenter Ridge	Fred Snyder	Paradox	Uranium
Vanadium King	Long Park	Vanadium Corp. of America	Durango	Uranium
		L. E. Ross	Naturita	
Virgin	Long Park	D. C. Bunker	Nucila	Uranium
West Opera Box	Monogram Mesa	C. N. Athey	Box 156, Naturita	Uranium
Whitney	Long Park	DeVar Shumway	215 Lands Down Rd., Grand Junction	Uranium
Whiz Bang Group	Little Gypsum Valley	Vanadium Corp. of America	Durango	Uranium
Wild Horse	Dolores Rim	Rex Uranium Co.	Farmington, New Mexico	Uranium
Wildcat No. 3	Martin Mesa	Joe Cole	Uravan	Uranium
Wildcat No. 8	Martin Mesa	Max Waincott	2021 W. St., Pueblo	Uranium
Worcester	Dolores Bench	Worcester Mines	1501 White St., Grand Junction	Uranium
Wright	Dolores Rim	Dale Sturtevant	Box 184, Naturita	Uranium
Yellow Bird No. 1	Long Park	Howard Christie & David Pace	Box 212, Uravan	Uranium

OPERATING MINES IN OURAY COUNTY

American Nettle	Gold Hill	W. R. Nichols and O. C. Baker	12 N. Junction Ave., Montrose	Gold, Silver, Lead, Zinc, Copper
Big Andy	Poughkeepsie Gulch	O. K. Lybarger	Box 418, Santa Fe, New Mexico	Gold, Silver
Camp Bird	Ouray	Camp Bird Colorado, Inc.	First Nat'l Bank Bldg., Denver 2	Gold, Silver, Lead, Zinc, Copper
Edna Frank Hough	Ironton Engineer Mtn.	Mrs. G. W. Ballard Brown Mining Co.	Ouray Box 173, Montrose	Gold, Silver, Lead, Copper
Greyhound	Ironton	Diamond Jack Mining Co.	Ouray	Gold, Silver, Lead, Zinc
Hoffy	Ironton	Hoffy Mining Co.	625 N. 7th, Grand Junction	Gold, Silver, Lead, Zinc
Magnet	Ironton	Hoffy Mining Co.	625 N. 7th, Grand Junction	Gold, Silver, Lead, Zinc
Martin Monarch	Ironton Poughkeepsie Gulch	Hoffy Mining Co.	625 N. 7th, Grand Junction	Gold, Silver, Lead, Zinc
Mountain King	Red Mtn.	Standard Uranium Corp.	264 S. 4th E., Moab, Utah	Gold, Silver, Lead, Zinc, Copper
Nasby North Star	Lake Lenore Poughkeepsie Gulch	Mayflower Mining Co. Arthur Alschbach	Ouray Ouray	Silver, Lead, Zinc
Old Lout	Poughkeepsie Gulch	George E. Wing	3040 E. 60th Place, Huntington Park, Calif.	Lead, Zinc
Patsy Helen Group	Brown Mtn.	Standard Uranium Corp.	264 S. 4th E., Moab, Utah	Lead, Zinc
Plymouth Premier	Ironton	Diamond Jack Mining Co. Diamond Jack Mining Co.	1424 N. Hancock, Colorado Springs Ouray	Silver, Lead, Zinc, Silver, Lead, Zinc

OPERATING MINES IN OURAY COUNTY (Continued)

Name of Mine	Location	Operator	P. O. Address	Product
Revenue Group	Stoney Mtn.	Polus & Lawson	Aztec, New Mexico	Gold, Silver, Lead, Zinc, Copper
Rouville	Red Mtn.	Rouville Mining Co.	Silverton	Lead
Ruby Trust	Shoofels District	Francis Consolidated	Mining Co. Box 402, Ouray	Gold, Silver, Lead
Treasury Tunnel	Ouray	Idarado Mining Co.	Ouray	Gold, Silver, Lead, Zinc, Copper

OPERATING MINES IN PARK COUNTY

Blue Bird	Badger Flats	B. B. Beryllium Co.	2411 W. Colorado Ave., Colorado Springs	Uranium
Boomer	Badger Flats	Mile High Oil Co., Inc.	306 Bon Durant Bldg., Pueblo	Beryl
Happy Thought	Badger Flats	Badger Mining Co.	205 Cypress Drive, Colorado Springs	Beryl
Hilltop	Horseshoe District	Leadville Lead Corp.	Fairplay	Silver, Lead
J. & S.	Badger Flats	Young & Clayborne	Route 1, Fountain	Beryl
Little Star	Horseshoe District	Galloway & Holzer	Alma	Silver, Lead
Merical Exploration Co., Inc.	Mt. Silverheels	Merical Exploration Co., Inc.	2431 Mapleton, Boulder	Gold, Silver, Lead
Twinkle	Horseshoe District	Galloway & Holzer	Alma	Silver, Lead
White Rock	Badger Flats	Mike Daniel	Box 117, Lake George	Uranium

OPERATING MINES IN PITKIN COUNTY

Big Buck	Snowmass	Tanner & Pringley	Basalt	Manganese
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OPERATING MINES IN RIO BLANCO COUNTY

Butterfly Pits	Uranium Peak	McAlester Fuel Co.	Box 783, Meeker	Uranium, Vanadium
Burrell No. 3	Uranium Peak	DeVar Shumway	215 Lands Down Rd., Grand Junction	Uranium, Vanadium
Coal Creek No. 1	Meeker	John & Robert Dade	Meeker	Uranium, Vanadium
Last Day	Meeker	Ivor Adair	Moab, Utah	Uranium, Vanadium

OPERATING MINES IN SAGUACHE COUNTY

Antoro Bonito	Bonanza Marshall Pass	Superior Mines Corp. D & J Uranium & Exploration Co., Inc.	Box 127, Salida	Silver, Lead, Zinc
Copper Head Claim	Mineral Hot Springs	Gendev Mining Corp.	219 Bon Durant Bldg., Pueblo	Uranium
Fortinberry Jenny	Bonanza Bonanza	Rampart Mining Co. L. G. Johnston	407 Independence Bldg., Colorado Springs Costello Motel, Salida Bonanza Route, Villa Grove	Copper Manganese Silver, Lead, Zinc, Copper
Lookout Los Ochos	Marshall Pass	Golden Drilling Co.	2301 East St., Golden	Uranium
Pershing	Cochetopa Creek	Gunnison Mining Co.	Box 539, Gunnison	Uranium
Pitch Tunnel	Manganese Gulch	Charles Murray	Bonanza Route, Villa Grove	Manganese
Rawley No. 2	Indian Creek	Pinnacle Exploration, Inc.	Box 144, Gunnison	Uranium
Rawley Nos. 3 & 12	Bonanza Bonanza	W. J. Costello Superior Mines Corp.	Bonanza Route, Villa Grove Box 127, Salida	Silver, Lead, Zinc Gold, Silver, Zinc

OPERATING MINES IN SAN JUAN COUNTY

Blackhawk	Cement Creek	Silver Bay Mines, Inc.	1787 Blaine Ave., Salt Lake City, Utah	Gold, Silver, Lead, Zinc
Brooklyn	Emporium Gulch	Frank Richardson	Box 546, Ouray	Gold, Silver, Lead, Zinc, Copper
Burbank	Clear Creek	Denver-Golden Oil & Uranium Co.	First Nat'l Bank Bldg., Denver 2 1500 Mile High Center, Denver 2	Gold, Silver Uranium
Elk Park Property	Elk Park	Gaddis Mining Co.	Silverton	Lead, Zinc
Garry-Owen	Cunningham Gulch	Marcy-Shenandoah Corp.	Box 476, Silverton	Gold, Silver, Lead, Zinc, Copper
Gold King	Bonita Creek	Gold King Development Co.	Box 366, Silverton	Gold, Silver, Lead, Zinc
Hamlet	Magpie Creek	Charles R. Hall	Silverton	Silver, Lead, Zinc, Copper
Kansas City	Georgia Gulch	Olsen & Martz	1714 S. 6th St., Ironton, Ohio	Silver, Lead
Mike's Strike	Magpie Gulch	Dan Tipton	Silverton	Gold, Silver, Lead, Copper
Oscoda	Cunningham Gulch	Argyle Mining & Milling Corp.	Silverton	Gold, Silver, Lead, Copper
Pride of the West	Cunningham Gulch	Argyle Mining & Milling Corp.	Box 492, Silverton	Gold, Silver, Lead, Zinc
Silver Cloud	Mill Creek	Tom Gilliland	Silverton	Gold, Silver, Lead, Zinc, Copper
Terry Tunnel	Eureka Creek	Grant Gifford	Silverton	Gold, Silver, Lead, Zinc, Copper

OPERATING MINES IN SAN MIGUEL COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
Andrus	Ingram Basin	East Ridge Co.	Box 559, Ouray	Gold, Silver, Lead, Zinc
Ann No. 2	Slick Rock	Burwell Mining Co.	Egnar	Uranium, Vanadium
April No. 1	Slick Rock	C. F. Snyder & Son	Slick Rock	Uranium, Vanadium
Ava Jay	Slick Rock	Fritz & Erickson	Dove Creek	Uranium, Vanadium
Bachelor Shaft	Bachelor Draw	Bachelor Mines	Dove Creek	Uranium, Vanadium
Laid Eagle	Gypsum Valley	Pum Rice	Box 575, Nucla	Uranium, Vanadium
Bean No. 3 and Bean Patch Slick Rock		Dan Clesser	Route 3, Montrose	Uranium, Vanadium
		Dulaney Mining Co.	First Nat'l Bank Bldg., Grand Junction	Uranium, Vanadium
Black Jack	Slick Rock	Burwell Mining Co.	Egnar	Uranium, Vanadium
Black Spider	Summit Canyon	Edward Baird	Dove Creek	Uranium, Vanadium
Blue Clay	Melnyre Road	Charles Pickens	Mancos	Uranium, Vanadium
Broadway	Hamm Canyon	Workman Brothers	Box 296, Uravan	Uranium, Vanadium
Bull Snake Group	Horseshoe Bend	Cranium Producers, Inc.	405 Burns Vault Bldg., Denver 2	Uranium, Vanadium
Burro No. 1	Bridal Veil	Oscar Blixt	Box 196, Telluride	Gold, Silver
Burro Nos. 3, 5, 7	Slick Rock	LaSalle Mining Co.	Slick Rock	Uranium, Vanadium
Burro Point	Wedding Bell	John Foy	Box 412, Dove Creek	Uranium, Vanadium
Canyon Claim	Spud Patch	Elwood Kelly	Box 503, Nucla	Uranium, Vanadium
Charlotte No. 1	Slick Rock	Merle D. Lloyd	Slick Rock	Uranium, Vanadium
Chimpunk	Wedding Bell	Jim Goforth	Box 223, Naturita	Uranium, Vanadium
Civet Cat	Melnyre Canyon	G. W. King	General Delivery, Moab, Utah	Uranium, Vanadium
Cougar Drift	Slick Rock	Darrell Foster	Slick Rock	Uranium, Vanadium
Cougar Incline	Slick Rock	Merle D. Lloyd	Slick Rock	Uranium, Vanadium
Dereemo	Summit Canyon	Boyles Brothers Drilling Co.	1321 S. Main St., Salt Lake City, Utah	Uranium, Vanadium
Dolores No. 2	Slick Rock	E. J. Johannsen & W. E. Haldane	Dove Creek	Uranium, Vanadium
Early Morn Group	Big Gypsum Valley			Uranium, Vanadium
Ely	Gypsum Valley	Reid Brothers	Box 273, Naturita	Uranium, Vanadium
Falcon No. 1	Slick Rock Hill	Chasney Brothers	Slick Rock	Uranium, Vanadium
Fire Fly	Slick Rock	Joe Gomez	Egnar	Uranium, Vanadium
Full Moon Group	Slick Rock	Joe Gomez & Albert Decaligny	Redvale	Uranium, Vanadium
Gold King	Slick Rock	E. J. Johannsen	Nucla	Uranium, Vanadium
	Gold King Basin	Summit Leasing Co.	Box 163, Ouray	Uranium, Vanadium
Groundhog	Wedding Bell	Benson, Benson & Nordlander	Telluride	Uranium, Vanadium
		Carl Kinsey	Box 186, Montrose	Uranium, Vanadium
Hangover	Slick Rock	Glen Gardner	Box 101, Naturita	Uranium, Vanadium
Hazel No. 1	Slick Rock	Dale Dillon	Box 1478, Cortez	Uranium, Vanadium
Hazel Group	Summit Canyon	Burwell Mining Co.	Egnar	Uranium, Vanadium
Hogback	Slick Rock	Louis Morton	Box 412, Dove Creek	Uranium, Vanadium
Horseshoe No. 7	Egnar	Norman Wyers	Box 164, Dove Creek	Uranium, Vanadium
Ike No. 5, Incline No. 4	Horseshoe Bend	Jack Milling	Egnar	Uranium, Vanadium
	Slick Rock	Dulaney Mining Co.	First Nat'l Bank Bldg., Grand Junction	Uranium, Vanadium
Iron Springs Placer	Old Ophir	Boyd Robinson	1654 Canon Ave., Grand Junction	Uranium, Vanadium
Jack Knife	Wedding Bell	Fred Morlang	Box 101, Olathe	Bog Iron
Joe Dandy Group	Sawpit	Clarence Neilson	Box 875, Uravan	Uranium, Vanadium
King No. 4	Slick Rock	Jack Williams & Gerald Randolph	Box 42, Egnar	Uranium, Vanadium

Latricia	Slick Rock	M. K. Doyle	Box 1433, Grand Junction	Uranium, Vanadium
Legin Group	Slick Rock	Ortmayer Mining Co.	Dove Creek	Uranium, Vanadium
		E. E. Lewis, Inc.	Box 1481, Grand Junction	
Little Max	Spud Patch	John Neal Mining Co.	Hotchkiss	Uranium, Vanadium
Lucky B	Slick Rock	Pikes Peak Uranium Corp.	404 Mining Exchange Bldg., Colorado Springs	Uranium, Vanadium
Mainstreet	Wedding Bell	William Holder	Box 204, Naturita	Uranium, Vanadium
Mary Jane	Hamm Canyon	Carl Kinsey	Box 186, Montrose	Uranium, Vanadium
		Workman Bros.	Box 296, Uravan	Uranium, Vanadium
Moqua Jug	Spud Patch	Jack Dick	Delta	Uranium, Vanadium
Morning Glory	Gypsum Valley	Pum Rice	Box 575, Nucla	Uranium, Vanadium
Navajo	Wedding Bell	William Nixon	Box 295, Dove Creek	Uranium, Vanadium
New Dominion	Old Ophir	Randy Belisle	Ophir	Gold, Silver, Lead, Zinc
Norma Jean No. 1	Spud Patch	John Neal Mining Co.	Hotchkiss	Uranium, Vanadium
Norma Jean No. 2	Spud Patch	Tex Cross	Egnar	Uranium, Vanadium
		E. J. Johannsen	Nucla	
North Slope	Mt. Hayden	Herbert Williams	Box 104, Montrose	Gold, Silver, Lead, Zinc
Northern No. 6	Slick Rock	Samuel Johnson	Slick Rock	Uranium, Vanadium
Northern Light	Slick Rock	Earl Godfrey	Slick Rock	Uranium, Vanadium
Ocupmough	Slick Rock	Roy Goode	Box 352, Mancos	Uranium, Vanadium
Pandora	Telluride	Idarado Mining Co.	Ouray	Gold, Silver, Lead, Zinc, Copper
Penigal & Penigal No. 1	Slick Rock	Mario Dalpez	Dove Creek	Uranium, Vanadium
Penigal No. 2	Slick Rock	Ernan Dalpez	Dove Creek	Uranium, Vanadium
Pitch Fork No. 1	Gypsum Valley	Hollern & Hollern Mining Co.	Dove Creek	Uranium, Vanadium
Pond Incline	Gypsum Valley	Hardin & Plantz, Inc.	Redvale	Uranium, Vanadium
Radium Group	Slick Rock	Dulaney Mining Co.	First Nat'l Bank Bldg., Grand Junction	Uranium, Vanadium
River View	Gypsum Valley	F. L. Green and I. L. Jackson	Box 141, Nucla	Uranium, Vanadium
Roy Lee	Horseshoe Bend	Thomas H. Skidmore	Box 558, Dolores	Uranium, Vanadium
S. B. Group	Horseshoe Bend	Foy & Davis Mining Co.	Box 412, Dove Creek	Uranium, Vanadium
Sage No. 11	Bishop Canyon	Uranium Shares, Inc.	Box 989, Cripple Creek	Uranium, Vanadium
San Bernardo	Matterhorn	U-Tah-See Mining Syndicate	Box 673, Ophir	Gold, Silver, Lead, Zinc
San Miguel	Summit Point	Dulaney Mining Co.	First Nat'l Bank Bldg., Grand Junction	Uranium, Vanadium
Sitten Shaft	Slick Rock	Harold Ernst	Box 308, Dove Creek	Uranium, Vanadium
Strawberry Roan	Bishop Canyon	T. E. & S. R. Thompson	Dove Creek	Uranium, Vanadium
Summit Group	Slick Rock	Charles Pickens	Mancos	Uranium, Vanadium
Sunday No. 2	Gypsum Valley	Star Mining Co.	Box 291, Grand Junction	Uranium, Vanadium
Tailholt	Slick Rock	Merle D. Lloyd	Slick Rock	Uranium, Vanadium
Tiny	Gypsum Valley	R. R. Wolney & Rex Holland	Naturita	Uranium, Vanadium
Uncle Sam	Gypsum Valley	E. J. Johannsen	Nucla	Uranium, Vanadium
Uintah Adit	Bull Canyon	Clarence Hollen	c/o Climax Uranium Co., Box 1901, Grand Junction	Uranium, Vanadium
Vanadium Queen	McIntyre Canyon	G. W. King	General Delivery, Moab, Utah	Uranium, Vanadium
Veta Mad & Veta Glad	Slick Rock	York Minerals, Inc.	Slick Rock	Uranium, Vanadium
Wally Claims	Joe Davis Hill	Woodrow Gripe	Naturita	Uranium, Vanadium
Windswept	Gypsum Valley	Frank Chessney	Slick Rock	Uranium, Vanadium
Yellow Girl	McIntyre Canyon	White, Green & Addison, Inc.	311 Boston Bldg., Denver 2	Uranium, Vanadium
Yellow Jacket	Ophir	Reed, Belisle & Reed	Box 152, Naturita	Uranium, Vanadium

OPERATING MINES IN SUMMIT COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
Alliance	Gibson Hill	R. C. Moffitt	Box 338, Breckenridge	Gold, Silver, Lead, Zinc
Big Four	Green Mtn. Dam	Silver Bull Mining Co.	Breckenridge	Gold, Silver, Lead, Zinc
New York	Breckenridge	Knight Mining Corp.	2432 Grove St., Denver 11	Lead, Zinc
St. John	Montezuma	Norbuta Corp.	Box 1700, Grand Junction	Silver, Lead, Zinc
Shoe Basin	Shoe Basin	Basin Mining Co.	6363 E. Evans Ave., Denver 22	Gold, Silver, Lead, Zinc
Wellington	Breckenridge	Marvin Burger & Harold Horn	Breckenridge	Silver, Lead, Zinc

OPERATING MINES IN TELLER COUNTY

Ajax	Battle Mtn.	Golden Cycle Corp.	Box 127, Cripple Creek	Gold
Cameron	Cameron	Crest Mining Co., Inc.	Victor	Gold
Cresson	Raven Hill	Cresson Consolidated Gold Mining Co.	Box 127, Cripple Creek	Gold
Cripple Creek No. 1	Globe Hill	Rampart Mining Co.	Box 1776, Colorado Springs	Manganese
Deadwood	Bull Hill	Deadwood Leasing Co.	Cripple Creek	Gold
El Paso	Beacon Hill	Beacon Hill Mines, Inc.	Box 151, Route 1, Colorado Springs	Gold
Henry Adney Shaft International	Beacon Hill	John & Earl Robush	Cripple Creek	Gold
Ironclad	Gold Hill	Doepke Mining Co.	2431 N. Nevada, Colorado Springs	Gold
Mollie Kathleen	Globe Hill	Rampart Mining Co.	Box 1776, Colorado Springs	Manganese
Strong	Tenderfoot Hill	Mollie Kathleen Enterprises	Cripple Creek	Tourist
	Victor	Front Range Mines, Inc.	1325 Welton, Denver 2	Gold

OPERATING QUARRIES IN BOULDER COUNTY

Name of Quarry	Location	Operator	P. O. Address	Product
Brodie's St. Vrain	Lyons	Brodie's St. Vrain Quarries	Box 325, Lyons	Stone
Knowland	Lyons	Sterling Contracting Co.	Box 124, Lyons	Stone
Landaun	Lyons	Sterling Contracting Co.	Box 124, Lyons	Stone
Loukohen Brothers	Lyons	Loukohen Brothers Stone Co.	Box 865, Lyons	Stone
McCall	Lyons	Clyde Landaun	Lyons	Stone
Pfiefer	Lyons	Pfiefer Stone Cutting Co.	Lyons	Stone
Ramey	Lyons	John D. May	Lyons	Stone
Rawley	Lyons	Rawley & Sons	Box 876, Lyons	Stone
Stockton & Perkins	Lyons	Stockton & Perkins	737 Evergreen, Boulder	Stone
United Building Stone	Lyons	J. W. Wilson	832 Arapahoe St., Boulder	Stone

OPERATING QUARRIES IN CHAFFEE COUNTY

Coffee Pot Claim	Ute Trail	Silver Rucker M. & D. Co.	Salida	Mica, Feldspar, Bery
Crystal Place	Ute Trail	Salida Granite Co.	Salida	Granite
Homestake (Soda Spar)	Ute Trail	The M & S, Inc.	Box 671, Salida	Feldspar
Monarch Lime Quarry	Monarch Pass	The Colorado Fuel & Iron Corp.	Box 316, Pueblo	Limestone

OPERATING QUARRIES IN CLEAR CREEK COUNTY

Beaver Brook Mica Lode-----Bergen Park-----Charles M. Winn, Jr., et al.-----925 E. Otis St., Lakewood-----Feldspar
Paradise Mountain Lode-----Bergen Park-----Carl E. Ballast-----Route 1, Evergreen-----Feldspar

OPERATING QUARRIES IN COSTILLA COUNTY

Mesita Hill Quarry & Mesita-----Colorado Aggregate, Inc.-----Mesita-----Volcanic Scoria
Crusher-----

OPERATING QUARRIES IN CUSTER COUNTY

Rosita (Pit No. 10)-----Rosita-----Persolite Corp.-----Florence-----Perlite

OPERATING QUARRIES IN DELTA COUNTY

Doty Quarry-----Lazear-----Atlas Mining & Mfg. Co., Inc.-----414 Main St., Delta-----Sulphur

OPERATING QUARRIES IN DOUGLAS COUNTY

Helmer-----Littleton-----T. L. Helmer-----Route 1, Box 94, Littleton-----Limestone, Sand

OPERATING QUARRIES IN EAGLE COUNTY

Dotsero-----Roaring Fork-----Ideal Lava Products-----Box 390, Glenwood Springs-----Pumice
Glenwood Springs E. H. Bone-----Route 1, Carbondale-----Pumice

OPERATING QUARRIES IN EL PASO COUNTY

Castle-----Lennox Breed-----Colorado Springs Castle Concrete Co.-----Box 2462, Colorado Springs-----Concrete Aggregate
Colorado Springs Colorado Materials Co.-----Box 183, Colorado Springs-----Concrete Aggregate

OPERATING QUARRIES IN FREMONT COUNTY

American Crystal-----Taylor Gulch-----Frank H. Norberg Co.-----703 Guaranty Bank Bldg.,
Denver 2-----Limestone
Calcite No. 4-----Howard-----Colorado Limestone Co.-----Box 8, Howard-----Limestone
Canon Dolomite-----Canon City-----The Colorado Fuel & Iron Corp.-----Box 316, Pueblo-----Dolomite
Climax-----Canon City-----Alex Lockhart & Co.-----Canon City-----White Quartz
Coaldale-----Canon City-----Fibreboard Paper Products Corp.-----Box 269, Florence-----Gypsum
Cowan Travertine-----Canon City-----Cowan Brothers-----227 Main St., Canon City-----Travertine
Horney Ganister-----Temple Mtn.-----Ralph J. Pierce-----108 Pennsylvania St.,
Canon City-----Silica Rock
Mica Lode-----Canon City-----Lockhart & Ellis-----Canon City-----Feldspar, Mica
Morning Star-----Copper Gulch-----Morning Star Mining &-----Morning Star Mining Co.-----Feldspar
Portland-----Portland-----Ideal Cement Co.-----Canon City-----Limestone
Trail Gulch & Canon City-----Trail Gulch-----Colonna & Co. of Colorado, Inc.-----Canon City-----Marble

OPERATING QUARRIES IN GARFIELD COUNTY

Name of Quarry	Location	Operator	P. O. Address	Product
Glenwood Springs Lime Quarry	Glenwood Springs	Frank H. Norberg Co.	Box 150, Glenwood Springs	Limestone

OPERATING QUARRIES IN JEFFERSON COUNTY

Catherine No. 1	South Platte Canyon	Leonard Hollingsworth	Box 187A, Star Route, Morrison	Feldspar
Hi Wan	Bergen Park	B & H Minerals	880 S. Garrison St., Denver	Feldspar
Madonna No. 1	South Platte Canyon	Leonard Hollingsworth	Box 187A, Star Route, Morrison	Feldspar
Table Mountain	Golden	Sterling Contracting Co.	Box 759, Fort Collins	Filter Rock
White Cloud	Platte Canyon	Albert Miller	3155 Walsh St., Westwood	Feldspar

OPERATING QUARRIES IN LARIMER COUNTY

Berthoud Quarries	Carter Lake	Colorado Stone Co.	1635 N. Main St., Longmont	Stone
Boettcher Quarry & Crushing Plant	La Porte	Ideal Cement Co.	Box 579, Fort Collins	Limestone
Buckhorn	Masonville	Buckhorn Stone Quarry	Masonville	Stone
Goodwin	Payne Ranch	Ernest W. Munroe	Route 2, Box 273, Fort Collins	Gypsum
Hammons	Knowland	Sterling Contracting Co.	Box 124, Lyons	Stone
Jacobson & Lyons Quarry	Lyons	Jacobson-Lyons Stone Co., Inc.	Box C, Lyons	Stone
Loveland	Loveland	U. S. Gypsum Co.	Loveland	Gypsum
Loveland Quarries	Carter Lake	Colorado Stone Co.	1635 N. Main St., Longmont	Stone
Loveland No. 16	Loveland	Chase & Hoaglen	437 Summer St., Longmont	Stone
Online	Beach Hill	Arthur Online	Lyons	Stone
Red Stone Quarry	Beach Hill	Colorado Stone Co.	1635 N. Main St., Longmont	Stone
Rex	Owl Canyon	Frank H. Norberg Co.	703 Guaranty Bank Bldg., Denver 2	Stone
Weaver	Masonville	Weaver Stone Co.	759 S. York St., Denver 9	Limestone
Wild North Quarry	Masonville	Sterling Contracting Co.	Box 759, Fort Collins	Stone
Wild South Quarry	Masonville	George Wild	Estes Park Route, Loveland	Stone

OPERATING QUARRIES IN ROUTT COUNTY

McCoy Cinder Pit	McCoy	McCoy Aggregate Co.	Steamboat Springs	Volcanic Scoria
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OPERATING QUARRIES IN SAGUACHE COUNTY

Villa Grove Turquoise Lode	Villa Grove	Villa Grove Turquoise Co.	Box 171, Villa Grove	Turquoise
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OPERATING QUARRIES IN TELLER COUNTY

Black Cloud	Divide	Carl Quist	Lake George	Feldspar, Quartz
Pikes Peak	N. W. Corner Teller County	Pikes Peak Granite Co.	Box 2323, Colorado Springs	Monumental Stone

OPERATING PEAT BOGS IN BOULDER COUNTY

Name of Bog	Location	Operator	P. O. Address	Product
Caribou	Nederland	W. H. Keasler	115 13th St., Boulder	Peat
Green Thumb	Ward	Allen Trucking Co.	520 Pearl St., Boulder	Peat
Harms Peat Bog	Nederland	W. F. Harms	Ward	Peat
Mud Lake		Scruggs Peat Moss	510 Maxwell, Boulder	Peat

OPERATING PEAT BOGS IN GILPIN COUNTY

Braecher Ranch	Black Hawk	Colorado Peat, Inc.	Route 2, Box 79, Golden	Peat
Rudolph Ranch	Black Hawk	Gus Rudolph	Black Hawk	Peat

OPERATING PEAT BOGS IN LAKE COUNTY

Mt. Elbert Peat Moss	Hayden Ranch	Mt. Elbert Peat Moss Co., Inc.	Box 969, Leadville	Peat
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OPERATING PEAT BOGS IN TELLER COUNTY

Alpen Meadows Bog	Gillette	Alpen Meadows, Inc.	Box 1074, Colorado Springs	Peat
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OPERATING CLAY MINES AND PITS IN BOULDER COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
Spicer	Rocky Flats	Colorado Brick Co.	Box 727, Longmont	Clay

OPERATING CLAY MINES AND PITS IN CUSTER COUNTY

Lawson	Wetmore	Laclede-Christy Co.	Box 110, Canon City	Clay
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OPERATING CLAY MINES AND PITS IN DOUGLAS COUNTY

Helmer	Littleton	T. L. Helmer	Route 1, Box 94, Littleton	Clay
Hogback	Waterton	Robinson Brick & Tile Co.	500 Santa Fe Dr., Denver 4	Clay
Ringenberg	Castle Rock	The Denver Brick & Pipe Co.	4501 Fox St., Denver 16	Clay
Stevens Ranch	Castle Rock	Stroud-Whisenhunt	Castle Rock	Plastic Clay

OPERATING CLAY MINES AND PITS IN FREMONT COUNTY

I & E	Canon City	William R. Irvin	324 S. Cottonwood St., Canon City	Plastic Fire Clay
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OPERATING CLAY MINES AND PITS IN JEFFERSON COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
Chureh	Rocky Flats	Wesley D. Conda	Route 1, Boulder	Clay
Green Mountain	Golden	George W. Parfet Estate, Inc.	Box 226, Golden	Clay
Harvey	Rocky Flats	John L. Harvey	2970 Zenobia St., Denver 12	Clay
Lakewood Clay Quarry	Golden	Lakewood Brick & Tile Co.	1400 Jay St., Lakewood	Clay
Lariat	Waterton	Robinson Brick & Tile Co.	500 S. Santa Fe Dr., Denver 23	Clay
Leyden	Golden	G. C. Bennetts	Route 1, Box 390, Golden	Clay
Mt. Carbon Clay Pit	Morrison	Duane J. Burno	929 E. Ellsworth, Denver 9	Clay
North Chieftain	Denver	Hansen & Weil Construction Co.	739 S. Ogden, Denver 9	Clay
North Golden	Golden	The Denver Fire Clay Co.	3033 Blake St., Denver 5	Clay
Pit No. 71	Plainview	Wheatridge Excavating Co.	6820 W. 68th St., Wheatridge	Clay
Red Clay Quarry	Golden	Lakewood Brick & Tile Co.	1400 Jay St., Lakewood	Clay
Rockwell	Golden	George W. Parfet Estate	Box 226, Golden	Clay
Rubey	Golden	H. M. Rubey Clay Co.	Box 226, Golden	Clay
South Chieftain	Golden	Hansen & Weil Construction Co.	739 S. Ogden St., Denver 9	Clay
South Golden	Golden	The Denver Fire Clay Co.	3033 Blake St., Denver 5	Clay
South Leyden	Golden	G. C. Bennetts	Route 1, Box 390, Golden	Clay
State Quarry	Rocky Flats	Wesley D. Conda	Route 1, Boulder	Clay
Strainland Nos. 1 & 2	Golden	The Denver Brick & Pipe Co.	4501 Fox St., Denver 16	Clay

OPERATING CLAY MINES AND PITS IN PUEBLO COUNTY

Chamblin	Mustang	The Standard Fire Brick Co.	24th & Albany St., Pueblo	Clay
Good Pasture	Good Pasture	Harbison-Walker Refractories Co.		
Meadow No. 5	Stone City	General Refractories Co.	Box 150, Canon City	Clay
Nellie Helen	Stone City	Arthur Wands	Box 727, Lehi, Utah	Clay
Rock Creek	Rock Creek	Standard Fire Brick Co.	Stone City	Clay
Stone City Nos. 1, 2, 3, 5, 6	Stone City	General Refractories Co.	24th & Albany, Canon City	Clay
			Box 727, Lehi, Utah	Clay

OPERATING MILLS, PLANTS AND SMELTERS IN ADAMS COUNTY

Name of Mill or Plant	Location	Operator	P. O. Address	Product
North Plant	Denver	Cooley Gravel Co.	6101 Lowell Blvd., Denver 21	Sand, Gravel
Pit R	Denver	Brannan Sand & Gravel Co.	4800 Brighton Blvd., Denver 16	Sand, Gravel
Plant Nos. 8 & 10	Denver	Brannan Sand & Gravel Co.	4800 Brighton Blvd., Denver 16	Sand, Gravel

OPERATING MILLS, PLANTS AND SMELTERS IN ARAPAHOE COUNTY

South Plant	Englewood	Cooley Gravel Co.	6101 Lowell Blvd., Denver 21	Sand, Gravel
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OPERATING MILLS, PLANTS AND SMELTERS IN BOULDER COUNTY

Burlington	Valmont	General Chemical Division, Allied Chemical & Dye Corp.	Box 228, Boulder	Fluorspar
Marion	Sugar Loaf Rd.	Wah Chang Corp.	Box 441, Boulder	Thorium
More	Salina	A. B. More	Salina Star Rt., Boulder	Gold, Silver, Lead
Neveco	Ward	Neveco Mines Co.	1800 24th St., Boulder	Gold, Silver, Lead, Copper
Portable or Junior	Hygiene	Sterling Contracting Co.	Box 759, Fort Collins	Sand, Gravel
Wano	Jamestown	Ozark-Mahoning Co.	Jamestown	Fluorspar

OPERATING MILLS, PLANTS AND SMELTERS IN CHAFFEE COUNTY

Beryl Pilot Plant	Salida	Antero Refining Corp.	Box 550, Salida	Beryl
Monarch Crushing Plant	Monarch Pass	The Colorado Fuel & Iron Corp.	Box 316, Pueblo	Limestone
Rampart Mining Co. Mill	Smeltertown	Rampart Mining Co.	Costello Motel, Salida	Manganese
Western Feldspar Mill	Salida	Western Feldspar Milling Co.	Box 671, Salida	Feldspar

OPERATING MILLS, PLANTS AND SMELTERS IN CLEAR CREEK COUNTY

Black Eagle Mill	Idaho Springs	5M Corporation	Box 717, Idaho Springs	Development
Dumont Mill	Dumont	Dumont Mining & Milling Co.	Dumont	Gold, Silver, Lead, Zinc, Copper
Front Range Mill	Dumont	Front Range Mines, Inc.	Box 704, Idaho Springs	Gold, Silver, Lead, Zinc, Copper
Silver Spruce Mill	Idaho Springs	Michigan Chemical Corp.	Box 481, Idaho Springs	Gold, Silver, Copper
Washing & Crushing Plant	Empire	Herron & Strong	Platteville	Sand, Gravel

OPERATING MILLS, PLANTS AND SMELTERS IN DENVER COUNTY

Denver Works	Denver	General Chemical Division, Allied Chemical & Dye Corp.	Box 4040 S. Denver Station, Denver	Sulphuric Acid
Globe Plant	Globeville	American Smelting & Refining Co.	495 E. 51st St., Denver 16	Cadmium
Plant No. 6251	Denver	International Minerals & Chemical Corp.	1333 W. Maple St., Denver 23	Feldspar

OPERATING MILLS, PLANTS AND SMELTERS IN DOLORES COUNTY

Rico Sulphuric Acid Plant	Rico	Rico Argentine Mining Co.	Rico	Sulphuric Acid
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OPERATING MILLS, PLANTS AND SMELTERS IN EAGLE COUNTY

Eagle Mill	Gilman	The New Jersey Zinc Co.	Gilman	Silver, Lead, Zinc, Copper
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OPERATING MILLS, PLANTS AND SMELTERS IN FREMONT COUNTY

Cotton Plant	Canon City	Cotton Corp.	531 Main St., Canon City	Uranium
Portland Plant	Portland	Ideal Cement Co.	Box 231, Florence	Cement

OPERATING MILLS, PLANTS AND SMELTERS IN GARFIELD COUNTY

Name of Mill or Plant	Location	Operator	P. O. Address	Product
Rifle	Rifle	Union Carbide Nuclear Co.	Rifle	Uranium, Vanadium

OPERATING MILLS, PLANTS AND SMELTERS IN GILPIN COUNTY

Glory Hole Mill	Central City	Glory Hole, Inc.	Central City	Gold, Silver, Lead, Zinc, Copper
Golden Gilpin Mill	Black Hawk	Royal Mining & Milling Co.	Box 574, Loveland	Gold, Silver, Copper
Soda Lake Mill (Margie)	Black Hawk	Soda Lakes Mining Corp.	125 King St., Denver 19	Gold

OPERATING MILLS, PLANTS AND SMELTERS IN GUNNISON COUNTY

Basic Chemical Crushing Plant	Marble	L. E. Schooley	Grand Junction	Crushed Marble
Gunnison Mining Co. Mill	Gunnison	Gunnison Mining Co.	Box 539, Gunnison	Uranium

OPERATING MILLS, PLANTS AND SMELTERS IN JACKSON COUNTY

Northgate Mill	Cowdrey	Ozark-Mahoning Co.	Cowdrey	Fluorspar
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OPERATING MILLS, PLANTS AND SMELTERS IN JEFFERSON COUNTY

Beryl Ores Co. Plant	Arvada	Beryl Ores Co.	Box 105, Route 1, Arvada	Beryl, Mica
Plant at Pit No. 11	Arvada	Brannan Sand & Gravel Co.	4800 Brighton Blvd., Denver 16	Sand, Gravel
Rio Grande Plant	Wheatridge	Rio Grande Gravel Co.	123 Santa Fe Drive, Denver 23	Sand, Gravel
Sterling Contracting Co.	Table Mtn.	Sterling Contracting Co. and Table Mountain Crushed Stone Co.	1010 Russell Blvd., Denver 16	Filter Rock

OPERATING MILLS, PLANTS AND SMELTERS IN LAKE COUNTY

Arkansas Valley Plant	Leadville	American Smelting & Refining Co.	Leadville	Gold, Silver, Lead, Copper
Climax Mill	Climax	Climax Molybdenum Co.	Climax	Molybdenum

OPERATING MILLS, PLANTS AND SMELTERS IN LA PLATA COUNTY

V.C.A. Durango Plant	Durango	Vanadium Corp. of America	Durango	Uranium, Vanadium
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OPERATING MILLS, PLANTS AND SMELTERS IN LARIMER COUNTY

American Beryl	Masonville	American Beryl Corp.	125 1/2 N. Sherwood St., Fort Collins	Beryl
Holly	Owl Canyon	Frank H. Norberg Co.	703 Guaranty Bank Bldg., Denver 2	Limestone
Mincon Mill	Loveland	Mineral Concentrates & Chemical Co., Inc.	Box 185, Loveland	Beryl
Munroe Plant	Payne Ranch	Ernest W. Munroe	Route 2, Box 273, Fort Collins	Gypsum
Sterling Sand & Gravel Plant	Fort Collins	Sterling Sand & Gravel Co.	Box 759, Fort Collins	Sand, Gravel

OPERATING MILLS, PLANTS AND SMELTERS IN MESA COUNTY

Climax Uranium Mill ----- Climax Uranium Co. ----- Box 1901, Grand Junction ----- Uranium, Vanadium
 Clymers Hill ----- Grand Junction ----- Whitewater Sand & Gravel Co. ----- Box 1751, Grand Junction ----- Sand, Gravel
 Gobbo Pit ----- Grand Junction ----- Whitewater Sand & Gravel Co. ----- Box 1751, Grand Junction ----- Sand, Gravel
 National Lead Co. Pilot Mill ----- Grand Junction ----- National Lead Company, Inc. ----- Box 1849, Grand Junction ----- Uranium, Vanadium
 Western Uranium Project ----- Grand Junction ----- Lucius Pitkin, Inc. ----- Box 1351, Grand Junction ----- Analytical Laboratory
 Whitewater No. 1 ----- Grand Junction ----- Whitewater Sand & Gravel Co. ----- Box 1751, Grand Junction ----- Sand, Gravel

OPERATING MILLS, PLANTS AND SMELTERS IN MINERAL COUNTY

Creede Mill ----- Creede ----- Emperius Mining Co. ----- Creede ----- Lead, Zinc
 S. & S. Milling Co. ----- Creede ----- S. & S. Milling Co. ----- Creede ----- Gold, Silver, Lead, Zinc

OPERATING MILLS, PLANTS AND SMELTERS IN MOFFAT COUNTY

Maybell Mill ----- Maybell ----- Trace Elements Corp. ----- Maybell ----- Uranium

OPERATING MILLS, PLANTS AND SMELTERS IN MONTROSE COUNTY

Union Carbide Nuclear Co. ----- Uravan ----- Union Carbide Nuclear Co. ----- Uravan ----- Uranium, Vanadium
 Uravan Plant ----- Uravan -----

OPERATING MILLS, PLANTS AND SMELTERS IN OURAY COUNTY

Rolling J ----- Ouray ----- Bay City Mining & Milling Co., Inc. ----- Box 161, Ouray ----- Gold, Silver, Lead, Zinc, Copper

OPERATING MILLS, PLANTS AND SMELTERS IN PARK COUNTY

Blue River Gravel Pit ----- Jefferson ----- Blue River Constructors ----- Grant ----- Sand, Gravel

OPERATING MILLS, PLANTS AND SMELTERS IN PUEBLO COUNTY

Mica Grinding Plant ----- Pueblo ----- International Minerals & Chemical Corp. ----- 330 West D St., Pueblo ----- Ground Mica

OPERATING MILLS, PLANTS AND SMELTERS IN SAGUACHE COUNTY

Pershing Mill ----- Villa Grove ----- James McRee ----- Bonanza Route, Villa Grove ----- Manganese
 Superior Mill ----- Bonanza ----- National Minerals Corp. ----- Box 127, Salida ----- Lead, Zinc
 Tri-Ern Mill ----- Bonanza ----- Theodore V. Kehr ----- Box 349, Salida ----- Lead, Zinc

OPERATING MILLS, PLANTS AND SMELTERS IN SAN JUAN COUNTY

Pride Mill ----- Howardsville ----- Argyle Mining & Milling Corp. ----- Silverton ----- Gold, Silver, Lead, Zinc
 Silverton Central Mill ----- Silverton ----- Marcy-Shenandoah Corp. ----- Silverton ----- Lead, Zinc

OPERATING MILLS, PLANTS AND SMELTERS IN SAN MIGUEL COUNTY

Name of Mill or Plant	Location	Operator	P. O. Address	Product
New Dominion Mill	Old Ophir	Belisle & Reed	Ophir	Gold
Piedra Mill	Telluride	Idarado Mining Co.	Ouray	Gold, Silver, Lead, Copper, Zinc
Slick Rock Mill	Slick Rock	Union Carbide Nuclear Co.	Slick Rock	Uranium, Vanadium

OPERATING MILLS, PLANTS AND SMELTERS IN SUMMIT COUNTY

Blue River Crushing Plant	Dillon	Blue River Constructors	Dillon	Sand, Gravel
Ryan Crushing & Washing Plant	Climax	C. Ryan & Son	601 Wadsworth, Lakewood	Sand, Gravel

OPERATING MILLS, PLANTS AND SMELTERS IN TELLER COUNTY

Carlton Mill	Victor	Golden Cyle Corp.	Box 47, Victor	Gold
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OPERATING PLACERS IN CLEAR CREEK COUNTY

Name of Placer	Location	Operator	P. O. Address	Product
Franks Placer	Idaho Springs	Stephen J. Papp	10040 W. Colfax Ave., Lakewood	Gold
Texas	Floyd Hill Station	Alvin C. Amrhein	Box 566, Idaho Springs	Gold

OPERATING PLACERS IN GILPIN COUNTY

Durand Brothers Placer	Gilpin	Durand Brothers	935 S. Patton Court, Denver 19	Gold
Gold Nugget	North Clear Creek	William C. Spitts	329 S. Pearl St., Denver 9	Gold & Tourist
Hayes Placer	North Clear Creek	Floyd Hayes	6861 Ash St., Derby	Gold
Zacker Placer	Black Hawk	R. F. Zacker	Black Hawk	Gold

OPERATING PLACERS IN LAKE COUNTY

Luna Placer	Granite	M. E. Williams	Box 33, Palmer Lake	Gold
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OPERATING PLACERS IN PARK COUNTY

Alma	Alma	Alma Placer Mining Co.	Alma	Gold
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OPERATING PLACERS IN SAN JUAN COUNTY

Wild Goose	Lime Creek	Sungren & Garwood	Box 715, Cortez	Gold
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OPERATING PLACERS IN SUMMIT COUNTY

Jumbo	Gold Run Gulch	Marriott-Moore Co.	Breckenridge	Gold
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ROAD WORK, TUNNELS AND DAMS—1958

CLEAR CREEK COUNTY

Name of Operation	Location	Operator	P. O. Address	Project
Jones Pass Tunnel	Jones Pass	Michigan Sewer Constructors	Box 217, Empire	Water Tunnel
Vasquez Tunnel	Jones Pass	Michigan Sewer Constructors	Box 217, Empire	Water Tunnel

DELTA COUNTY

Beaver Reservoir	Paonia	Hopkins Construction Co.	1340 S. Lipan St., Denver 23	Dam
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GILPIN COUNTY

Moffat Water Tunnel	East Portal	Denver Tunnel Constructors	725 W. 39th Ave., Denver 5	Tunnel
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GRAND COUNTY

Williams Fork Dam	Parshall	Mountain States Construction Co.	Box 116, Hot Sulphur Springs	Dam
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HINSDALE COUNTY

Williams Creek Dam	Williams Creek	Hopkins Construction Co.	1340 S. Lipan St., Denver 23	Dam
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LAKE COUNTY

Busk Ivanhoe Tunnel	Leadville	Boyles Brothers Drilling Co.	1321 S. Main St., Salt Lake City, Utah	Water Tunnel
Homestake Water Tunnel	Turquoise Lake	Metropolitan Suburban Water Users Assn.	Colorado Springs	Water Tunnel
Leadville Drainage Tunnel	Leadville	Jones Lead & Zinc Mines	Box 921, Leadville	Water Tunnel

MESA COUNTY

Vega Dam Water Tunnel	Colbran	Theo Wood Construction Co.	Monticello, Utah	Water Tunnel
Vega Dam	Colbran	C. F. Lytle, Inc.	Box 260, Colbran	Dam Construction

PARK COUNTY

Harold D. Roberts Tunnel	Grant	Blue River Constructors	Grant	Water Tunnel
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PITKIN COUNTY

Busk Ivanhoe Tunnel		Boyles Brothers Drilling Co.	1321 S. Main St., Salt Lake City, Utah	Water Tunnel
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SUMMIT COUNTY

Harold D. Roberts Tunnel	Dillon	Blue River Constructors	Dillon	Water Tunnel
Montezuma Shaft	Montezuma	Blue River Constructors	Dillon	Water Tunnel
Ten Mile Diversion Tunnel	Kokomo	Boyles Brothers Drilling Co.	1321 S. Main St., Salt Lake City, Utah	Water Tunnel

Core and Wagon Drilling Operations

Boyles Brothers Drilling Co.	1321 S. Main St., Salt Lake City, Utah	Colorado Plateau
Bureau of Reclamation	Box 360, Salt Lake City, Utah	Colorado Plateau
Franklin & Perry Drilling Co.	Box 546, Ozona, Texas	Colorado Plateau
Fritz-Erickson Mining Co.	Box 365, Dove Creek	Colorado Plateau
Johnson & Youvan	Naturita	Colorado Plateau
Lippoth & Wein Drilling Co.	Box 502, Grand Junction	Colorado Plateau
MacPherson Drilling Co.	324 N. Townsend Ave., Montrose	Colorado Plateau
Minerals Engineering Co.	Box 1951, Grand Junction	Colorado Plateau
Mitchell Drilling Co.	516 Lilac Lane, Grand Junction	Colorado Plateau
Sexton Brothers	Box 506, Cortez	Colorado Plateau
Sprague & Henwood, Inc.	Box 1446, Grand Junction	Colorado Plateau

